STEREO CASSETTE TAPE DECK

KX-58W/58CW

SERVICE MANUAL

KENWOOD

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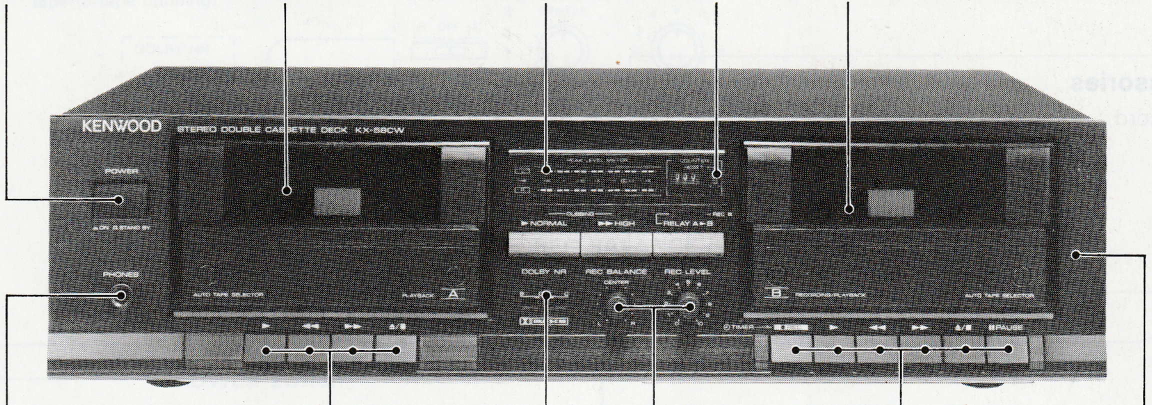

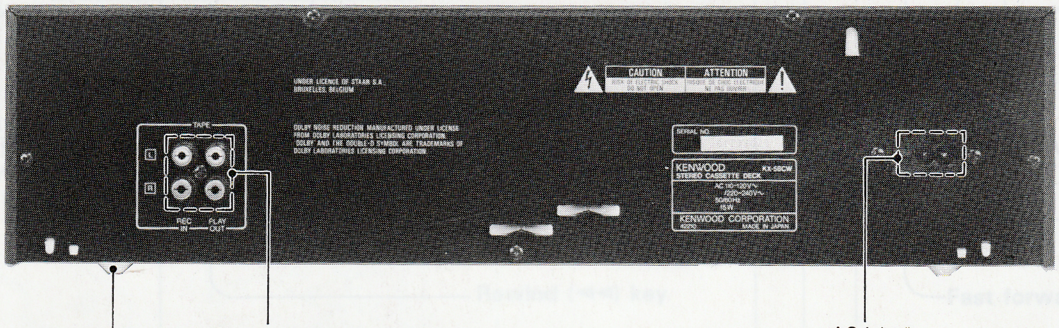

***Refer to Parts List on page 35.
Photo is KX-58CW.**

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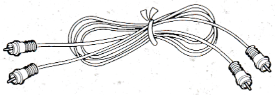
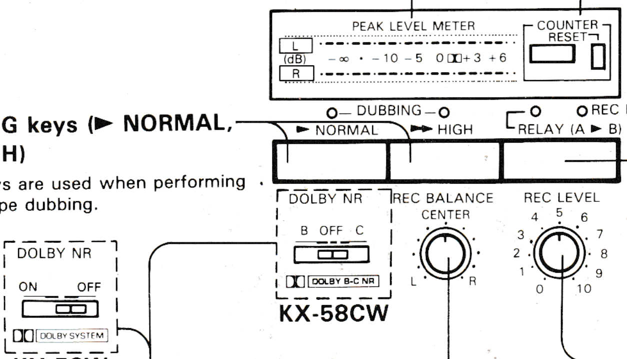
ACCESSORIES

Accessories

Audio cord 2



CONTROLS & INDICATORS



PEAK LEVEL METER

COUNTER/RESET key
This key is used to reset the counter to "000".

DUBBING keys (► NORMAL, ►► HIGH)
These keys are used when performing tape-to-tape dubbing.

RELAY play key
Press this key to perform relay play.

REC LEVEL control knob
This knob is used to adjust the recording level.

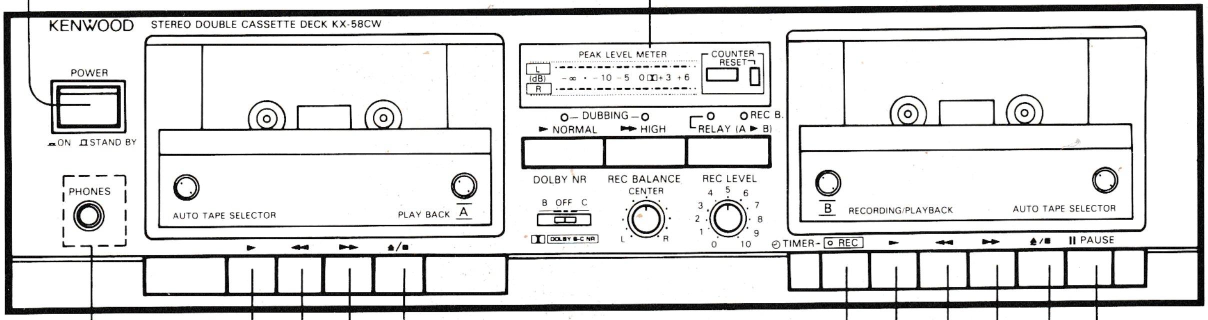
DOLBY NR switch
This switch is used to select the Dolby noise reduction among "B", "C" and "OFF" positions. (KX-58CW)

This switch is used to turn the Dolby noise reduction ON and OFF. (KX-58W)

REC BALANCE control knob
This knob is used to adjust the balance of the recording level between L-channel and R-channel.

POWER switch

KX-58CW



PHONES jack (KX-58CW only)

Eject/Stop (▲/■) key
When the deck is operating, pressing this key stops operation, and pressing it again opens the cassette holder.

Fast forward (►►) key

Rewind (◄◄) key

Play (►) key

PAUSE (II) key

Eject/Stop (▲/■) key

Fast forward (►►) key

Rewind (◄◄) key

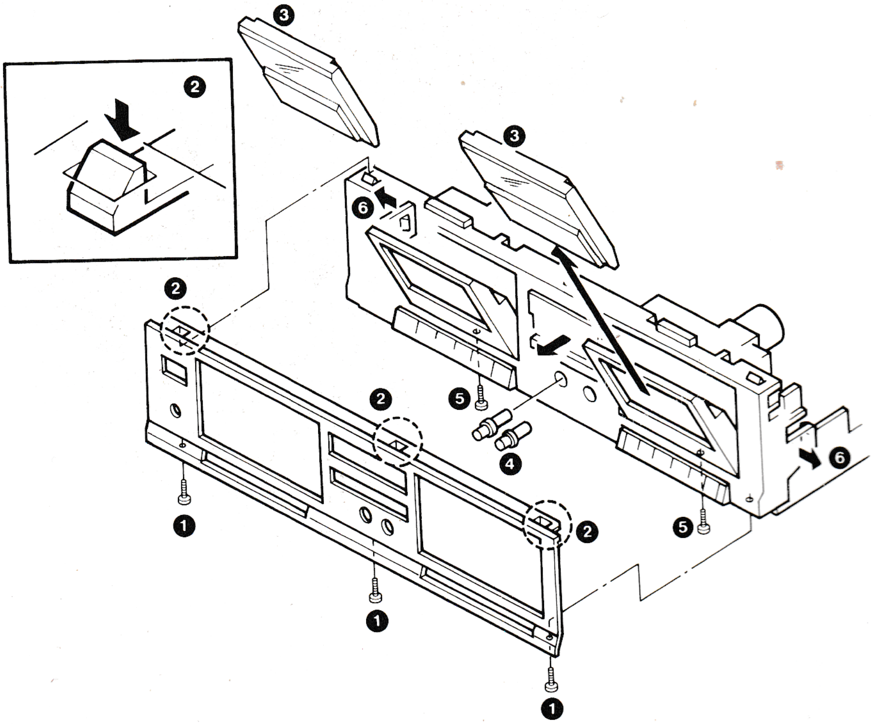
Play (►) key

REC key

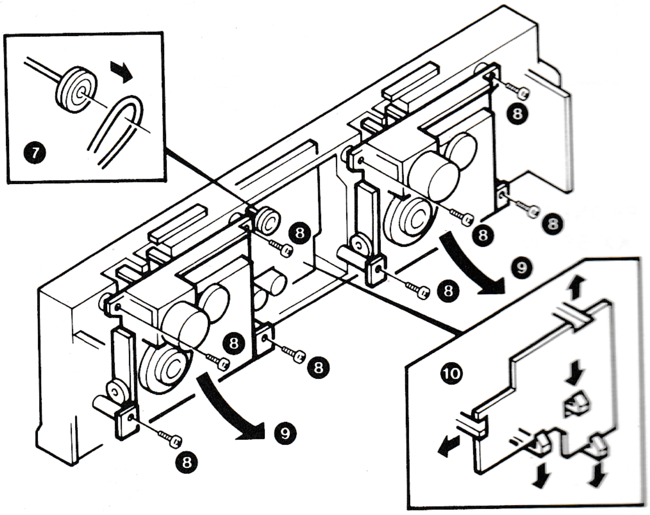
DISASSEMBLY FOR REPAIR

*Take out the case beforehand.

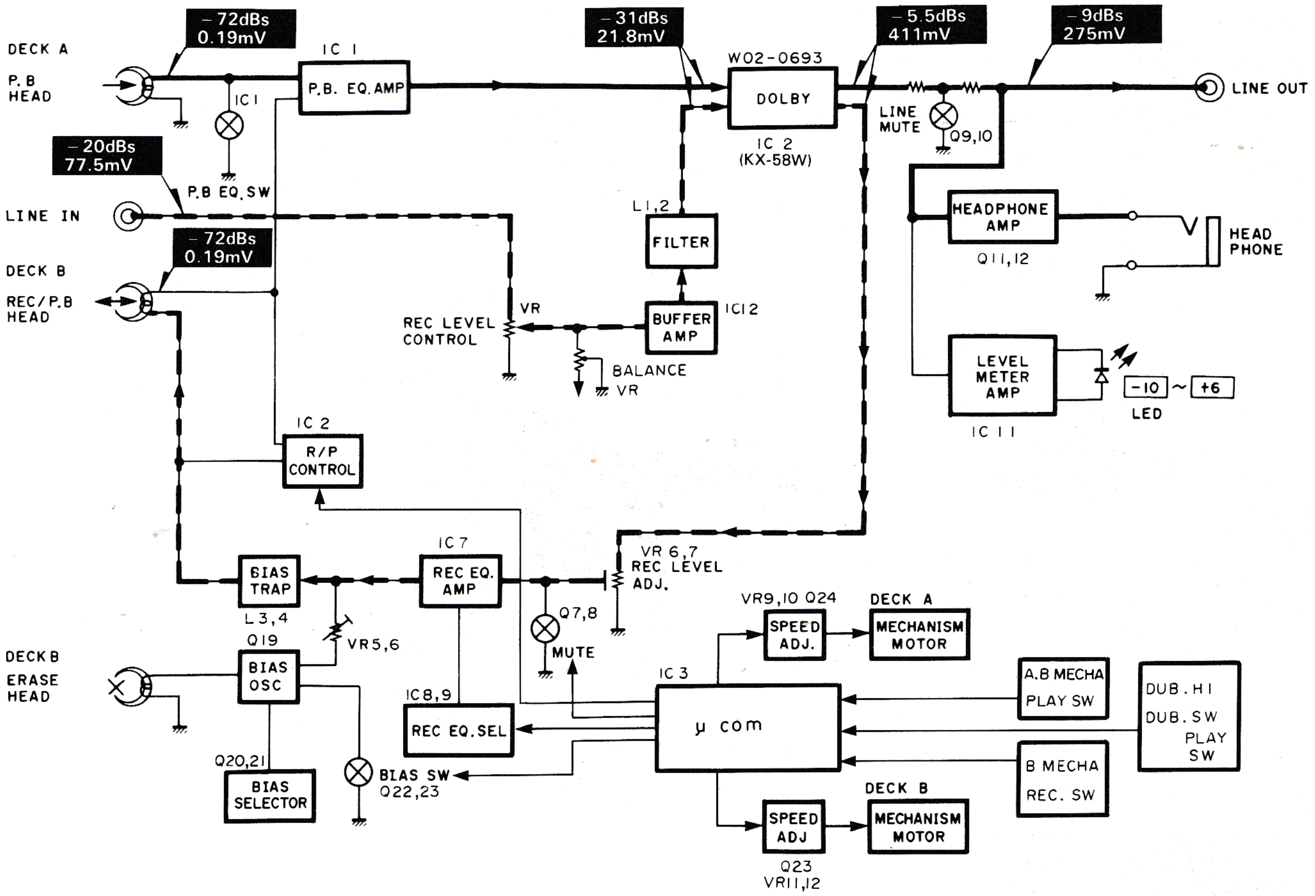
1. Remove the three screws ❶ and undo the three catches ❷, then detach the dressing panel.
2. Press the EJECT button, then detach the cassette lid ❸ from the cassette holder.
3. Detach the two VR knobs ❹.
4. Remove the two screws ❺ and undo the two catches ❻, then put out the sub panel towards you.



5. Disengage the tape counter belt ❼.
6. In the EJECT mode, remove the eight screws ❽ installing the mechanism, then take out the mechanism in the direction of arrow ❾.
7. Undo the five catches, then detach the switch board ❿.



BLOCK & LEVEL DIAGRAM



CIRCUIT DESCRIPTION

FUNCTION OF COMPONENTS
Recording/Playback unit (X28-1980-10-11)

Ref. No.	Components	Use/Functions	Operation/Condition/Compatibility
IC1	LA3246	Playback EQ IC	
IC2	μPC1330HA	Head SW IC (Deck B)	Controlled by pin 1 of IC3. Pin 4 becomes 5 V in recording and 0 V in playback.
IC3	LM6416F-2227	Microprocessor	
IC4	HA12136	Dolby B NR IC	KX-58W only.
IC5	μPC7818HF	+18 V AVR	
IC6	M51951ASL	Reset IC	
IC7	M5218P-A NJM4565D	REC EQ amplifier	NF constant is determined by IC8 and IC9 to obtain the recording equalizer property.
IC8,9	BA6251	EQ selection	Pins 1-7 of IC8 (IC9) serve to control the respective equalizer devices.
IC10	TD62554S	REC EQ selector	Controlled by Q29, Q16 and Q17 to control IC8 and IC9.
IC11	AN6888	Meter IC	5-point display ×2... −10, −6, 0, +3, +6 dB
IC12	M5218P-A NJM4565D-D	MPX buffer	
Q1,2	2SC1740S (Q,R) 2SC945(A) (Q,P)	Playback EQ output SW (Deck B)	Controlled by Q15. ON when deck B is played and OFF when deck A is played.
Q3,4	2SC1740S (Q,R) 2SC945(A) (Q,P)	Playback EQ output SW (Deck A)	Controlled by Q15. ON when deck A is played and OFF when deck B is played.
Q5,6	2SC1740S (Q,R) 2SC945(A) (Q,P)	Playback high-frequency compensation SW (Deck A)	Controlled by Q16. Normally ON. OFF only in high-speed dubbing to decrease playback high-frequency compensation amount.
Q7,8	2SC1740S (Q,R) 2SC945(A) (Q,P)	REC muting	Controlled by Q27. ON in other than recording to mute the recording system signal.
Q9,10	2SC2878(B)	Line muting	Controlled by Q28. ON in other than playback to mute the line system signal.
Q11,12	2SC1845 (F,E)	Headphone amplifier	
Q13,14	2SC1740S (Q,R) 2SC945(A) (Q,P)	Playback EQ 120 μ/70 μ SW	Controlled by Q15. Q13 turns ON when deck A is played and Q14 turns ON when deck B is played.
Q15	2SC1740S (Q,R) 2SC945(A) (Q,P)	Playback EQ 120 μ/70 μ inverter	Controlled by pin 9 of IC3. ON when deck A is played and OFF when deck B is played.
Q16	2SC1740S (Q,R) 2SC945(A) (Q,P)	Playback EQ inverter	ON only in high-speed dubbing. Otherwise OFF.
Q17	2SC1740S (Q,R) 2SC945(A) (Q,P)	EQ speed inverter	Controlled by Q16. OFF in normal dubbing and ON in high-speed dubbing.
Q18	2SC2003 (L,K)	Dolby IC 14 V AVR control transistor	Converts signal system 18 V into Dolby 14 V.
Q19	2SD863 (E,F)	Bias OSC	Oscillates at 105 kHz.
Q20	2SC3246	Bias current METAL SW	ON in recording on metal tape
Q21	2SC3246	Bias current CrO_2 SW	ON in recording on CrO_2 or metal tape
Q22	2SC3246	Bias SW	ON in recording to turn ON the bias oscillation.
Q23	2SC1740S (Q,R) 2SC945(A) (Q,P)	Bias SW	ON soon at power ON
Q24	2SC733(A) (Q,P) 2SC933SC (Q,R)	A mechanism speed control	ON in high-speed operation

CIRCUIT DESCRIPTION

Ref. No.	Components	Use/Functions	Operation/Condition/Compatibility
Q25	2SA733(A) (Q,P) 2SA933S(Q,R)	REC mute SW	Controlled by pin 3 of IC3. ON in other than recording.
Q26	2SA733(A) (Q,P) 2SA933S(Q,R)	Line mute SW	Controlled by pin 4 of IC3. ON in other than playback.
Q27	2SA733(A) (Q,P) 2SA933S(Q,R)	REC mute SW	Controlled by Q25. ON in other than recording.
Q28	2SA733(A) (Q,P) 2SA933S(Q,R)	Line mute SW	Controlled by Q26. ON in other than playback.
Q29	2SC1740S(Q,R) 2SC945(A) (Q,P)	Tape selector SW	ON with metal tape loaded on deck B
Q30	2SC3246	B motor SW	Controlled by pin 27 of IC3. In case of relay play, OFF until the end of the tape on deck A is reached, and ON when it is reached.
Q31	2SA733(A) (Q,P) 2SA933S(Q,R)	B motor control	ON in high-speed operation
Q32	2SD863(E,F)	Microprocessor 5 V AVR	Converts 12 V for mechanism to 5 V for microprocessor.
Q33	2SD822(Q,P,E)	Mechanism 12 V AVR	Converts to 12 V for mechanism the DC obtained by halfwave rectification of AC IN.

Electric circuit module (W02-0693-05)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	HA12088ANT	DOLBY B/C noise reduction	KX-58CW only.

CIRCUIT DESCRIPTION

MICROPROCESSOR
LM6416F-2227

1. Operational specification

The KX-58W/58CW is a mechanism logic double deck using two mechanisms made by GIKEN. Its circuit control is performed by a microprocessor by use of inputs from mechanism attached switches and tact switches.

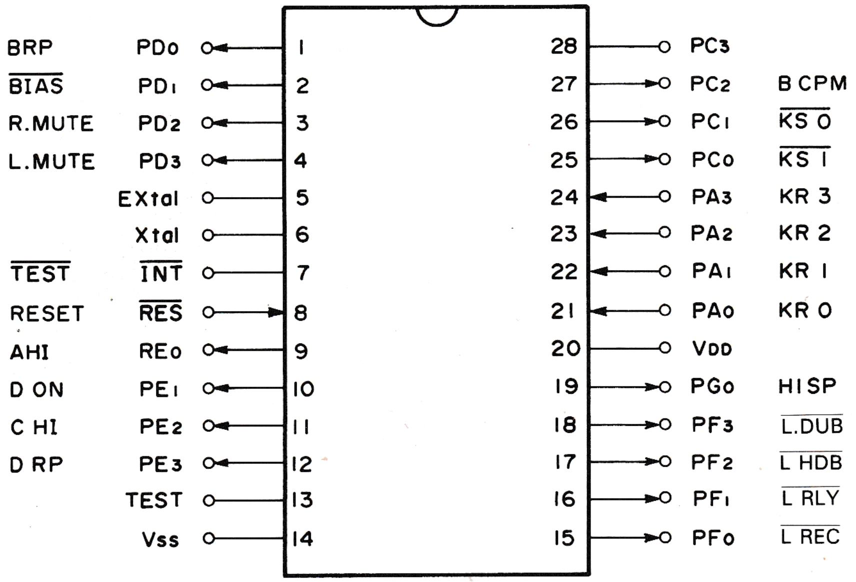
1-1 Functions

(1) Features

- One way ×2, double cassette
  Deck A: playback only
  Deck B: recording and playback
- Dubbing
  Deck A to B: normal speed dubbing
  Deck A to B: high speed dubbing
- Relay operation
  Relay playback (only once) from deck A to B
- Timer operation
  Timer playback: decks A and B either possible
  Timer recording: deck B only

(2) Microprocessor controlled subjects

- Selector circuits such as of recording/playback, deck A/B, etc.
- Dolby IC
- Bias oscillation circuit
- LED indication



1-2 Pin Functions

Pin No.	Pin name	I/O	Designation	Description		
1	PD0	O	BRP	B REC/PLAY selector	H: REC	L: PLAY
2	PD1	O	$\overline{\text{BIAS}}$	B BIAS control	H: OFF	L: ON
3	PD2	O	RMUT	B REC MUTE control	H: ON	L: OFF
4	PD3	O	LMUT	LINE MUTE control	H: ON	L: OFF
5	EXtal	—	—	Oscillator		
6	Xtal	—				
7	$\overline{\text{INT}}$	I	$\overline{\text{TEST}}$	Test mode setting	H: Normal	L: Test
8	$\overline{\text{RES}}$	I	RESET	RESET input	H: Normal	L: Reset
9	PE0	O	AHI	A/B select	H: A	L: B
10	PE1	O	DON	Dolby ON/OFF	H: ON	L: OFF
11	PE2	O	CHI	Dolby B/C	H: C	L: B
12	PE3	O	DRP	Dolby REC/PLAY	H: REC	L: PLAY
13	TEST	—	—	Connected to GND (LSI test pin)		
14	Vss	—	—	Connected to GND		

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Designation	Description		
15	PF$_0$	O	$\overline{\text{LREC}}$	REC LED	H: OFF	L: ON
16	PF$_1$	O	$\overline{\text{LRLY}}$	Relay LED	H: OFF	L: ON
17	PF$_2$	O	$\overline{\text{LHDB}}$	high speed dubbing LED	H: OFF	L: ON
18	PF$_3$	O	$\overline{\text{LDUB}}$	Normal speed dubbing LED	H: OFF	L: ON
19	PG$_0$	O	HISP	Motor speed, EQ speed select	H: High	L: Normal
20	V$_{DD}$	—	—	Connected to +5 V		
21	PA$_0$	I	$\overline{\text{KR0}}$	Key input	H: without input	L: with input
22	PA$_1$	I	KR1			
23	PA$_2$	I	KR2			
24	PA$_3$	I	KR3			
25	PC$_0$	O	$\overline{\text{KSO}}$	Key scan output	H: OFF	L: ON
26	PC$_1$	O	$\overline{\text{KSI}}$			
27	PC$_2$	O	BCPM	B motor ON/OFF	H: ON	L: OFF
28	PC$_3$	O	—	N.C. (OPEN)		

1-3 Keys

This unit turns ON/OFF by the mechanism operation because of using mechanism logics. Its circuit control is performed with inputs of leaf switches.

Name	Operation
PLAY SW (A mechanism) ON when head of A mechanism ascends.	At ON ..... Decks A/B: A selected Line mute turns ON and 0.5 sec later, OFF. Ignored when deck B is in recording except for dubbing. At OFF .....Decks A/B: B selected Line mute turns ON and, in case of during play of deck B, OFF 0.5 sec later. Ignored when deck B is in recording except for dubbing. B main motor ON.
PLAY SW (B mechanism) ON when head of B mechanism ascends.	(1) Normally At ON ..... Decks A/B: B selected Line mute turns ON, and 0.5 sec later, OFF. Ignored when deck A is in play. At OFF .....Decks A/B: A selected Line mute ON. Ignored when deck A is in play. (2) For recording (not dubbing) At ON ..... Line mute and recording mute turn ON, and 0.5 sec later, OFF. At OFF .....Line mute and recording muter ON. Bias OFF. (3) For dubbing At ON ..... Line mute and recording mute turn ON and, when deck A is in play, OFF 0.5 sec later. At OFF .....Recording mute ON. Line mute ON unless deck A is in play. Bias OFF.

CIRCUIT DESCRIPTION

Name	Operation
REC SW (B mechanism) ON when REC key is pressed (with cassette hub)	(1) Normally At ON ..... REC/PLAY: REC selected, Decks A/B: B selected Bias ON and REC LED ON. Ignored when deck A is in play. At OFF .....REC/PLAY: PLAY selected, Decks A/B: A selected REC LED OFF. Ignored unless REC is engaged. (2) For dubbing At ON ..... REC/PLAY: REC selected, Decks A/B: A selected Bias ON and REC LED ON At OFF .....REC/PLAY: PLAY selected. REC LED OFF.
Dubbing key	Effective only when PLAY SW and REC SW are both OFF. Dubbing LED ON. High speed dubbing LED and relay LED OFF.
High speed dubbing key	Effective only when PLAY SW and REC SW are both OFF. High speed dubbing LED ON. Dubbing LED and relay LED OFF.
Relay key	Effective only when PLAY SW and REC SW are both OFF. Relay LED ON and B motor OFF. High speed dubbing LED and dubbing LED OFF

1-4 Operation

Name	Key handling	Operation
Dubbing (including High-speed mode)	Press the dubbing key.	Dubbing LED ON
	Let deck A play and set PLAY SW to ON.	Decks A/B: A selected Line mute OFF 0.5 sec later.
	Press the REC key of deck B, and set the REC SW and PLAY SW to ON.	REC/PLAY: REC selected. Dolby OFF. Bias ON. Speed is high for high-speed mode. Line mute and recording mute turn ON 0.5 sec later. Dubbing starts.
Relay play	Press the relay key.	Relay LED ON and B mechanism motor OFF.
	Let deck A play and set PLAY SW to ON.	Decks A/B: A selected. Line mute OFF 0.5 sec later. B mechanism motor OFF.
	Press the PLAY key of deck B.	Although the PLAY key of deck B is locked, since the motor is OFF, the head does not ascend and the PLAY SW of deck B thus remains OFF.
	Deck A stops (as tape end is reached or an operation key is handled)	B mechanism motor ON and thus ON PLAY SW of deck B. Decks A/B: B selected. Line mute OFF 0.5 sec later.

CIRCUIT DESCRIPTION

1-5 Initial status

	Item	Status
Circuit	BRP	PLAY
	BIAS	OFF
	REC MUTE	ON
	LINE MUTE	ON
	Dolby R/P	PLAY
Mecha-nism	HISP	Normal speed
	BCPM	OFF and ON 3.5 sec later.
Dis-play		All OFF

1-6 Test mode

A test mode is added for aiming at simplified speed adjustment.

(1) Setting method

Put in 4 PIN into contact with GND (momentarily).

(2) Contents

i) When the test mode is entered, an ''H'' signal is output to pin HISP. Namely, the mechanism is set to the high speed mode.

ii) Each time the high speed dubbing key is pressed, pin HISP is inverted.

(3) Canceling method (Make pin 4 open. That pin 4 remains in contact with GND is inadvisable.)

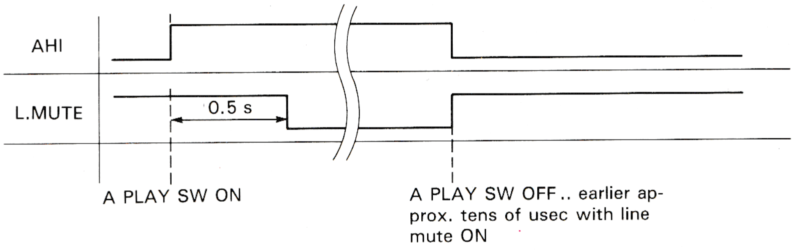
i) Press the dubbing key or the relay key.

ii) Perform recording.

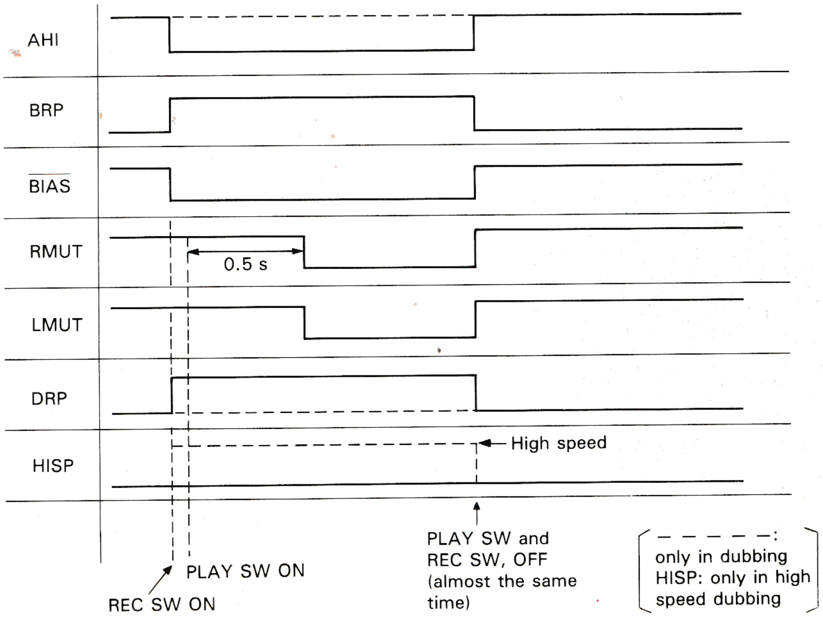
Needless to say, the test mode will also be canceled by power OFF.

1-7 Timing chart

① STOP→PLAY→STOP (A)


AHI
L.MUTE
0.5 s
A PLAY SW ON
A PLAY SW OFF.. earlier approx. tens of usec with line mute ON

② STOP→REC→STOP (B)


AHI
BRP
BIAS
RMUT
0.5 s
LMUT
DRP
HISP
High speed
REC SW ON
PLAY SW ON
PLAY SW and REC SW, OFF (almost the same time)
– – – – –: only in dubbing
HISP: only in high speed dubbing

MECHANISM DESCRIPTION

1. Function Description of Main Parts (Fig. 1 ~ 3)

1-1. ASSIST GEAR (36) [for playback]: This is driven by the TRIGGER ARM (II) (26) and swings the SHIFT ARM (29).

1-2. SHIFT ARM (29) [for playback]: This is swung by the cam of the ASSIST GEAR (36) and moves up the HEAD BASE (89) via SPRING (72).

1-3. PLAY ARM (30) [for palyback]: Control is made by the BOSS of the HEAD BASE (89). The TAKEUP REEL ASS'Y is operated by the PLAY GEAR (34) on the PLAY ARM (30).

1-4. CLUTCH ASS'Y (42) [for transmission of rotation in the Play, FF, REW mode]: This transmits the rotation from the flywheel to both left and right reels via clutch for fast-forward and rewind.

1-5. TRIGGER ARM (II) (26) [for playback]: This is swung by the PLAY LEVER (16) via TRIGGER ARM (I) (24), and triggers the ASSIST GEAR (36).

1-6. LOCK CAM LEVER (II) (23) [for ejecting]: This prevents the EJECT LEVER (22) from shifting during stop operation, and it also inhibits the auto stop operation in the stop mode.

1-7. LOCK CAM LEVER (I) (20) [for locking of operation lever]

1-8. TRIGGER ARM (27) [for auto stop]: During the auto stop operation, this is swung by the power transmitted from the flywheel via the AUTO PULLEY (38) and AUTO GEAR (33), and slides the LOCK CAM LEVER (I) (20).

1-9. AUTO SENSOR (21) [for auto stop]: This is swung by the T REEL ASS'Y (8) and locks the AUTO CAM (32) when the rotation stops.

1-10. PAUSE LOCK ARM (14) [for auto stop]: This inhibits the auto stop operation in the pause mode.

1-11. AUTO LOCK ARM (28) [for auto stop]: This inhibits the auto stop operation during the stop or pause mode.

2. Stop Status (Fig. 1), (Fig. 3)

2-1. The SHIFT ARM (29) is energized by the SPRING (77).

2-2. The cam of the ASSIST GEAR (36) comes contact with the edge of the SHIFT ARM (29).

2-3. The TRIGGER ARM (II) (26) is energized by the SPRING (74).

2-4. The cam located on the rear of the ASSIST GEAR (36) comes contact with the boss at the edge of the TRIGGER ARM (II) (26) so that the rotation of the GEAR (36) is locked.

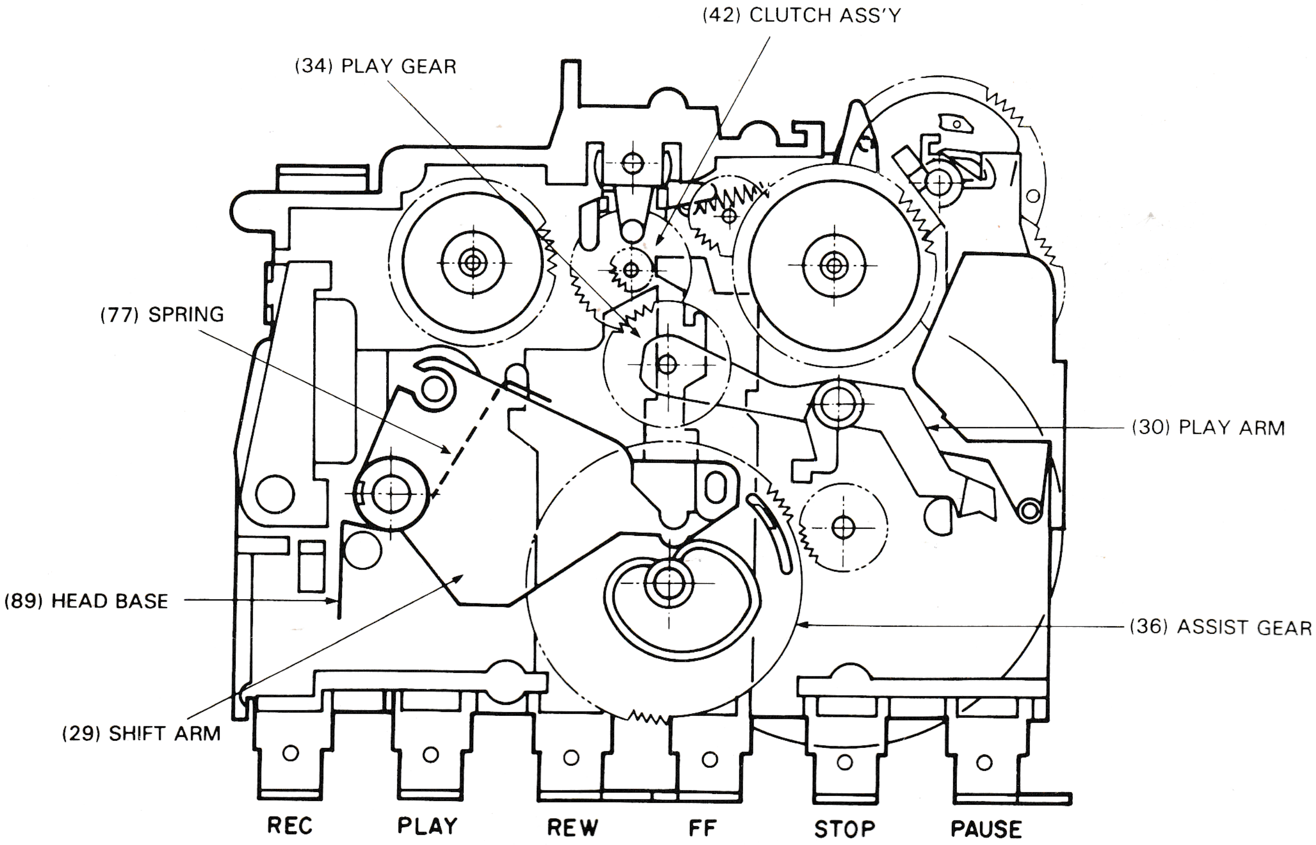


Fig. 1 Parts Discription (Front perspective view)

MECHANISM DESCRIPTION

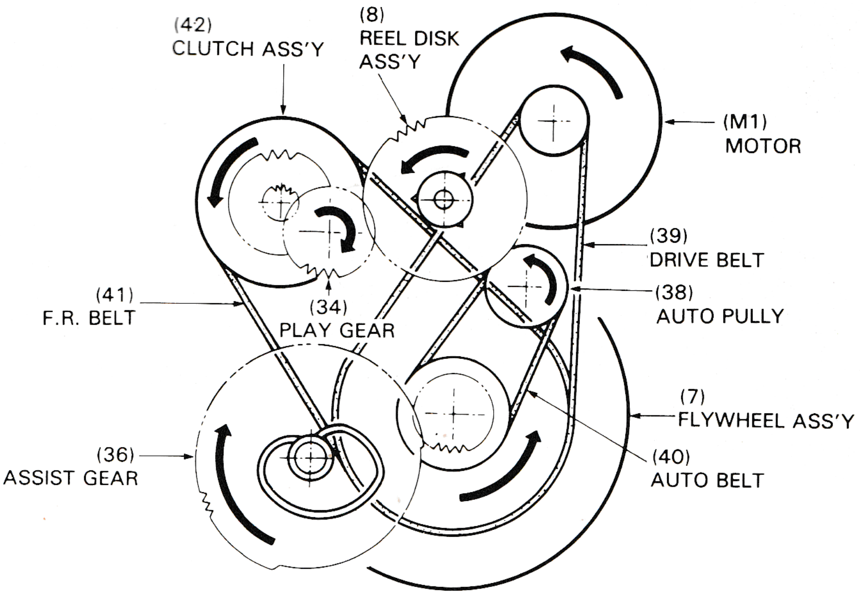


Fig. 2 Discription of power transmission

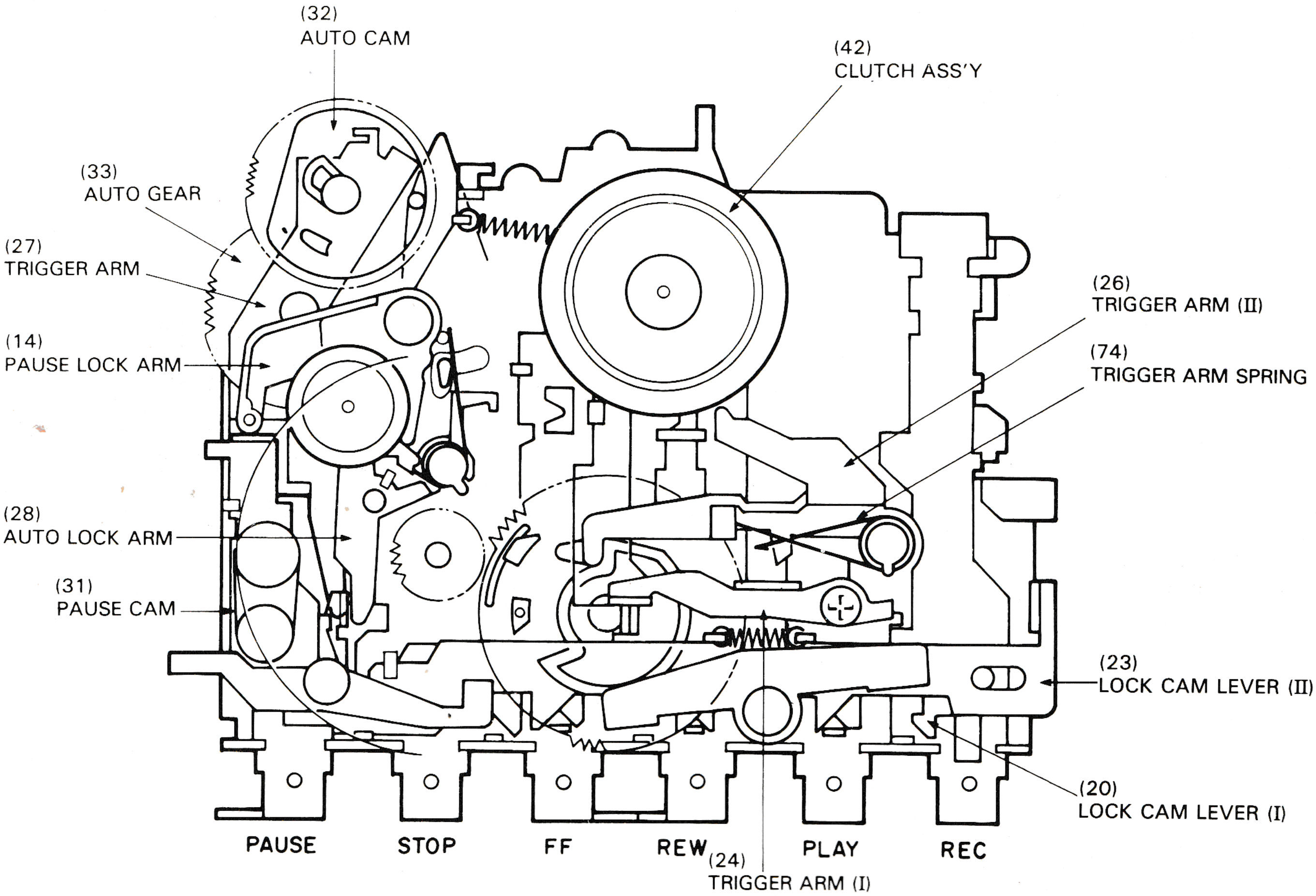


Fig. 3 Parts Discription (Rear perspective view)

3. FF (Fast-Forward) Operation (Fig. 4)

3-1. The CLUTCH ASS'Y (42) is stretched in the direction of ⇨ (Ⓐ) by the resultant of the SPRING (71) and the FR BELT (41).

3-2. In the stop mode, the CLUTCH ASS'Y (42) stops at the neutral position by the lug (or protrusion) (Ⓑ) of the FF LEVER (18).

3-3. When the FF LEVER is pressed and locked, the CLUTCH ASS'Y (42) falls down into the concave section (Ⓒ) of (18).

3-4. The gear of the CLUTCH ASS'Y (42) is engaged with the FF GEAR (34).

3-5. The rotation of the FLYWHEEL (7) is transmitted to the T REEL ASS'Y (8) via the CLUTCH ASS'Y (42) and the FF GEAR (34).

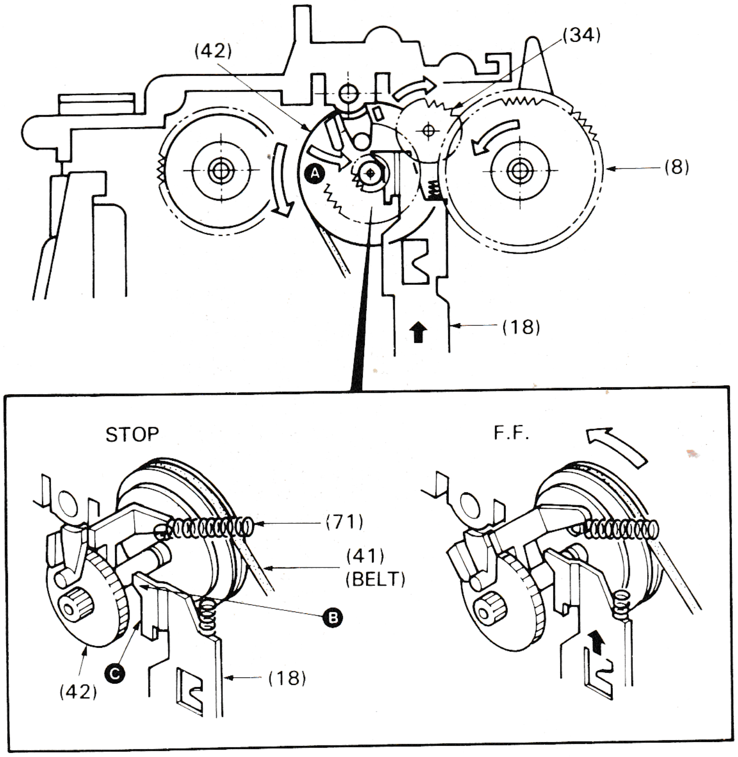


Fig. 4 F.F.

4. Rewind (REW) Operation (Fig. 5)

4-1. The CLUTCH ASS'Y (42) is streched in the direction of ⇨ (Ⓐ) by the resultant of the SPRING (71) and the FR BELT (41). (Fig. 4)

4-2. In the stop mode, the CLUTCH ASS'Y (42) stops at the neutral position by the lug (or protrusion) (Ⓑ) of the FF LEVER (18). (Fig. 4)

4-3. When the REW LEVER (17) is pressed and locked, the CLUTCH ASS'Y (42) is rotated in the direction of (Ⓑ) against the force of SPRING (71) due to slope (Ⓐ).

4-4. The gear of the CLUTCH ASS'Y (42) is engaged with the gear of the S REEL ASS'Y (9).

4-5. The rotation of the FLYWHEEL (7) is transmitted to the S REEL ASS'Y (9) via the CLUTCH ASS'Y (42).

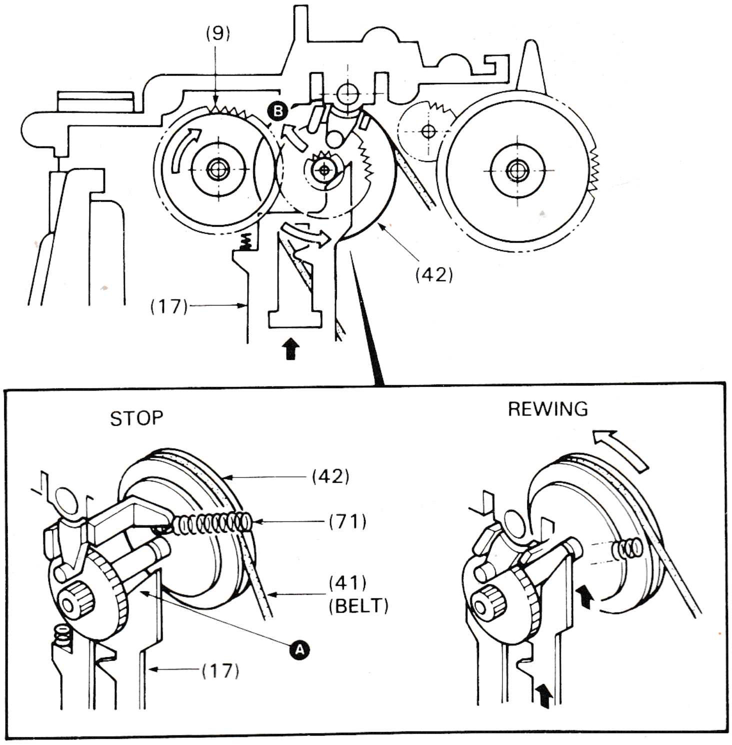


Fig. 5 REW

MECHANISM DESCRIPTION

5. Play Operation (Fig. 6)

5-1. Press the PLAY LEVER (16) (➡ ❶).

5-2. The TRIGGER ARM (I) (24) which is fixed on the PLAY LEVER (16) with the screw is also moved in the direction of ➡ ❷.

5-3. The notch (Ⓐ) of the TRIGGER ARM (I) (24) comes contact with the TRIGGER ARM (II) (26). (➡ ❷.) At the same time, the notch (Ⓑ) of the TRIGGER ARM (I) (24) comes in touch with the notch (Ⓓ) of the FF and REW LEVERS (18),(17). (➡ ❸.)

5-4. The TRIGGER ARM (I) (24) swings in the direction of ➡ ❷ using (Ⓑ), (Ⓓ) as supporting points and (Ⓐ), (Ⓒ) as application points.

5-5. The TRIGGER ARM (II) (26) is swung in the direction of ➡ ❹ by notch (Ⓐ) of the TRIGGER ARM (I) (24).

5-6. The edge (Ⓔ) of the TRIGGER ARM (II) (26) is unlocked from the section (Ⓕ) of the ASSIST GEAR (36).

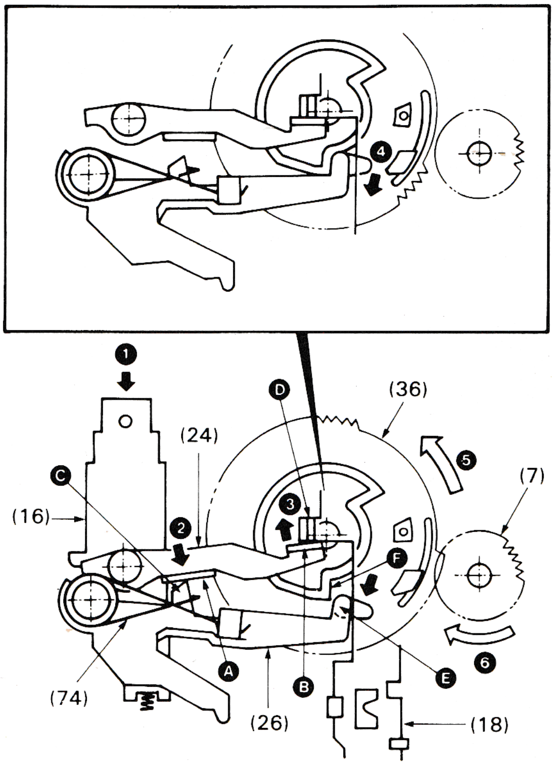


Fig. 6 Play (Unlock ASSIST GEAR)

5-7. Since the cam (Ⓐ) of the ASSIST GEAR (36) is pushed by the protrusion (Ⓑ) of the SHIFT ARM (29), the ASSIST GEAR (36) is rotated in the direction of ⇨ ❺.

5-8. When rotated a bit, the gear section of the ASSIST GEAR (36) is engaged with the gear of the FLYWHEEL (7) and then it is continued.

5-9. By the cam (Ⓐ) of the ASSIST GEAR (36), the SHIFT ARM (29) is lifted against the SPRING (77), then the hook (Ⓒ) on the edge of it is swung in the direction of ➡ ❻.

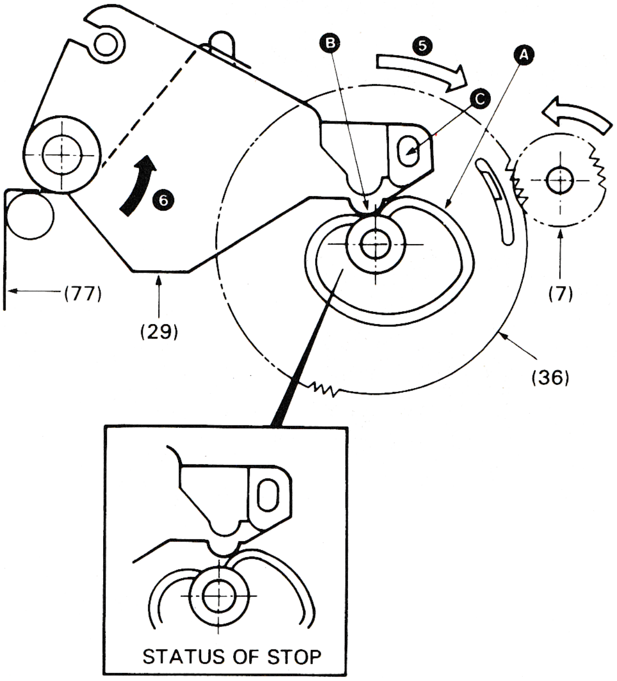


Fig. 7 Play (Rotate ASSIST GEAR)

MECHANISM DESCRIPTION

5-10. The HEAD BASE (89) is slid on the surface of the chassis. The hook of the HEAD BASE (89) and that of the SHIFT ARM (29) are connected with the SPRING (72).

5-11. When the SHIFT ARM (29) is lifted, the HEAD BASE (89) is also moved up and comes in contact with the notch (Ⓐ), so that the unit (cassette deck) is entered the play mode.

5-12. In the play mode, due to the rise of the HEAD BASE (89), the PLAY ARM (30) is swung in the direction of ➡❽ (by the SPRING (76)) and further pushed up by the BOSS Ⓑof the HEAD BASE (89).

5-13. When the HEAD BASE (89) reaches the play position, the PLAY GEAR (34) is engaged with the CLUTCH ASS'Y (42) and the T REEL ASS'Y (8) to transmit the rotation.

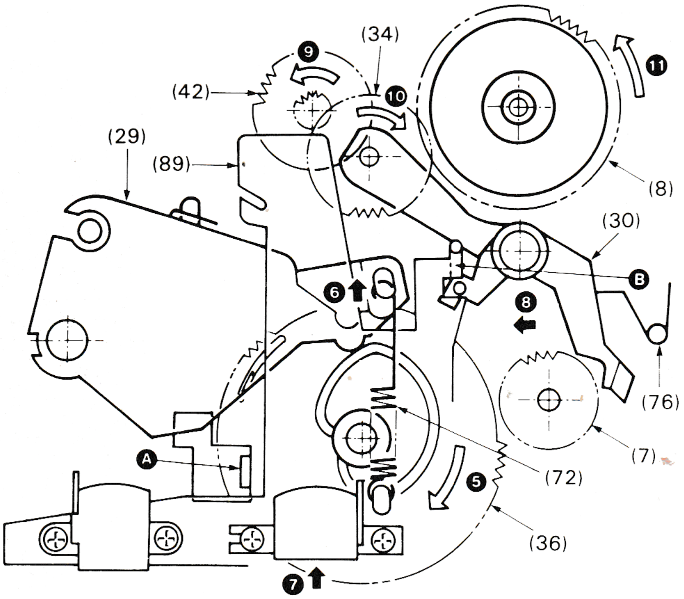


Fig. 8 Play (move up HEAD BASE)

5-14. The ASSIST GEAR (36) still rotates even after the HEAD BASE (89) stops and stops when the boss (Ⓔ) of the TRIGGER ARM (II) (26) comes in contact with the stopper (Ⓐ) of the ASSIST GEAR (36). (See Fig 9.)

5-15. During the PLAY LEVER (16) is locked, the TRIGGER ARM (II) (26) is held at the position shown in the figure (Fig. 9) by the TRIGGER ARM (I) (24). (See Fig. 6.)

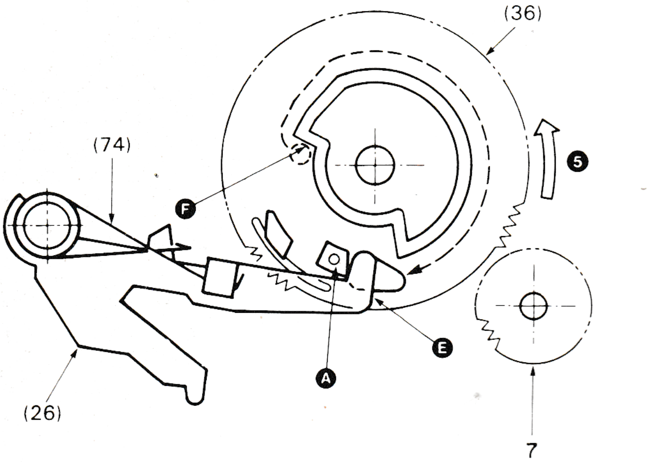


Fig. 9 Play (Hold play mode)

5-16. When the PLAY LEVER (16) is released, the TRIGGER ARM (I) (24) becomes free and the TRIGGER ARM (II) (26) is swung by the SPRING (74), and the ASSIST GEAR (36) is also unlocked. (See Fig. 9, Fig. 10.)

5-17. The ASSIST GEAR (36) is rotated in the direction of ⇨❺ by the pressure of the SHIFT ARM (29), and stops when the boss (Ⓔ) at the edge of the TRIGGER ARM (II) (26) comes in contact with the (Ⓕ) portion of the cam. (See Fig. 10.)

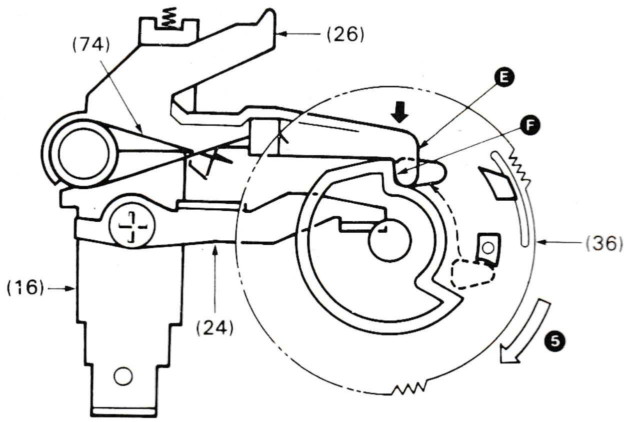


Fig. 10 Play (Release play mode)

MECHANISM DESCRIPTION

6. Auto Stop Operation (See Fig. 11)

6-1. The AUTO CAM (32) is rotated by the FLYWHEEL (7) via AUTO PULLEY (38) and AUTO GEAR (33) in the direction of ⇨ ❶.

6-2. The AUTO SENSOR LEVER (21) comes contact with the bottom of the T REEL ASS'Y (8) through the REEL WASHER (109), SPRING (66) and the T REEL SLIDER (108).

6-3. In the play mode, the boss (Ⓐ) at the edge of the AUTO SENSOR LEVER (21) is swung in the direction of ➡ ❷ by the rotation of the T REEL ASS'Y (8).

6-4. Since the boss (Ⓐ) of the AUTO SENSOR LEVER (21) moves around the inner edge of the AUTO CAM (32), it is not engaged with the protrusion (Ⓑ).

6-5. When the T REEL ASS'Y (8) stops rotating, the boss (Ⓐ) of the AUTO SENSOR LEVER (21) is moved to the center of the AUTO CAM (32) by the bank section (Ⓒ) of the AUTO CAM (32) and is engaged with the protrusion (Ⓑ).

6-6. The BOSS Ⓐof the AUTO SENSOR LEVER (21) is locked with the PROTRUSION Ⓑ of the AUTO CAM (32).
In this situation, the AUTO PULLEY (38) continues rotation in the direction of ➡ ❸so that the AUTO CAM (32) is moved in the direction of ➡ ❹ with the point Ⓓof the AUTO GEAR (33) as the point of support.

6-7. The end of the AUTO ARM (27) is moved in the direction of ➡ ❺ and moves the LOCK CAM LEVER (20) to release it. (See Fig. 12.)

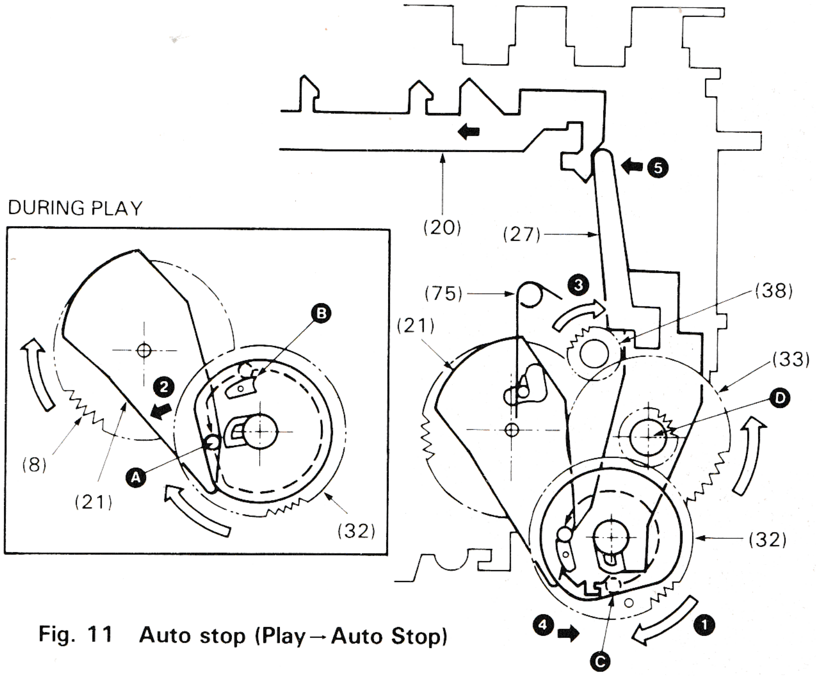


Fig. 11 Auto stop (Play→Auto Stop)

6-8. In the stop mode, the end section (Ⓐ) of the AUTO LOCK ARM (28) comes contact with the notch of the LOCK CAM LEVER (II) (23).

6-9. The boss (Ⓑ) of the AUTO SENSOR LEVER (21) is pushed in the direction of ➡ ❶ by the SPRING (75) installed on the AUTO LOCK ARM (28).

6-10. Since the boss of the AUTO SENSOR LEVER (21) comes contact with the inner edge of the AUTO CAM (32) in the same way as when the T REEL ASS'Y (8) is rotated, the auto stop operation does not function.

6-11. In the pause mode, the PAUSE LOCK ARM (14) is swung by pressing with the PAUSE LEVER (11), and the other end of it make the AUTO SENSOR LEVER (21) swing in the direction of ➡ ❶

6-12. In the same way as the stop mode, the auto stop operation does not function.

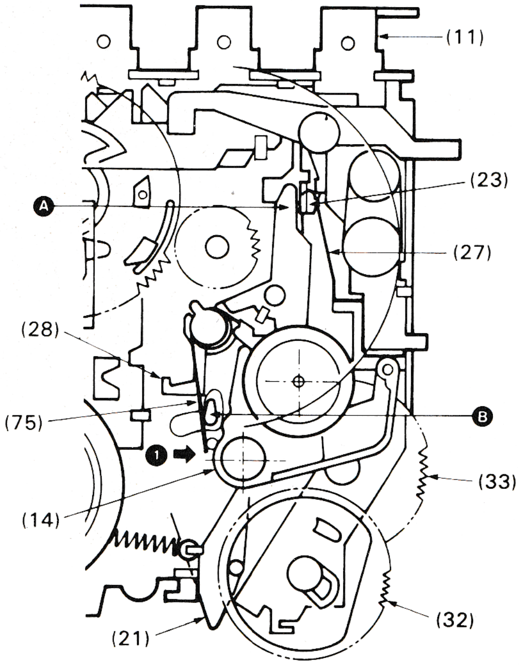


Fig. 12 Auto stop (During STOP & PAUSE)

MECHANISM DESCRIPTION

7. Rec Operation (See Fig. 13)

7-1. The REC SENSOR ARM (15) is swung in the direction of ➡ ❶ (when the recordable cassette is loaded).

7-2. Press the REC LEVER (10) in the direction of ➡ ❷ By this operation, the REC switch (S3) is turned ON.

7-3. At this time, the PLAY LEVER (16) is pushed by the shoulder of the REC LEVER (10), so, the unit enters the play mode from the view point of mechanism.

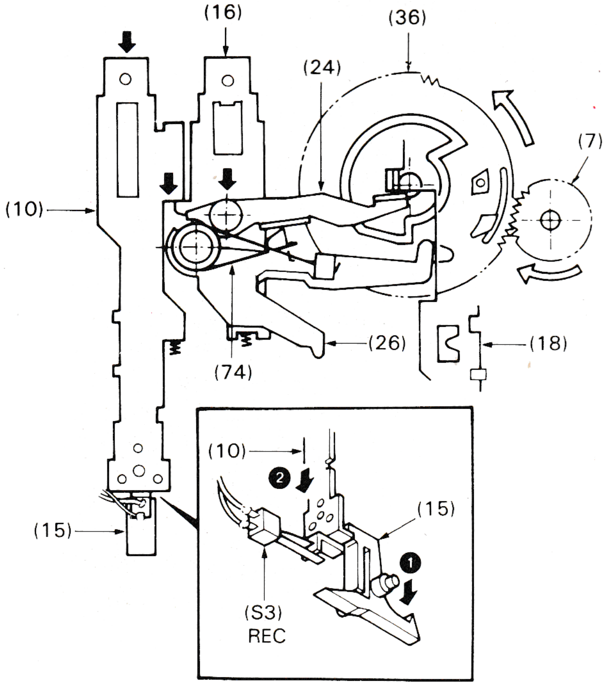


Fig. 13 Rec Operation

8. Pause Operation (See Fig. 14)

8-1. When the PAUSE LEVER (11) is pressed (in the direction of ➡ ❶), notches Ⓐ and Ⓑ press the ends of the PINCH ROLLER ASS'Y (37) and the PLAY ARM ASS'Y (30) to swing them respectively (in the direction of ➡ ❷ , ❸)

8-2. The PINCH ROLLER ASS'Y (30) is released from the CAPSTAN (7) and the PLAY GEAR (34) is released from the CLUTCH ASS'Y (42) so that the unit enters the pause mode.

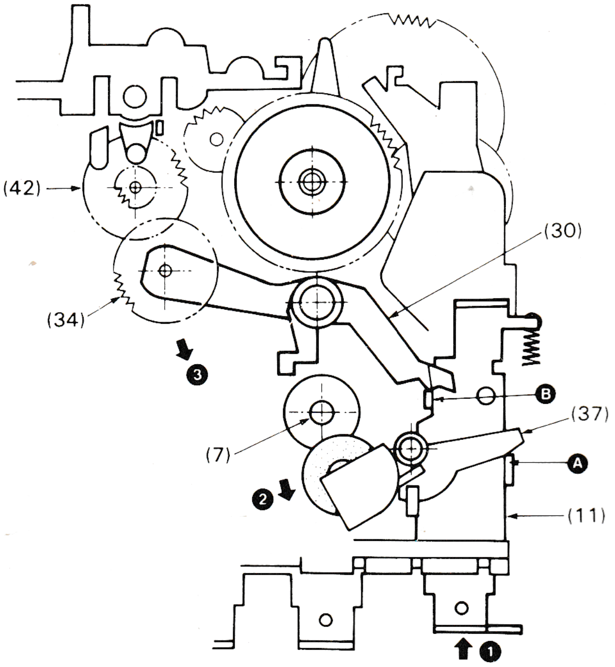


Fig. 14 Pause Operation

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE: NORMAL, DOLBY: OFF, INPUT: LINE				0dBs=0.775V	
I REC/PLAY HEAD							
[1]	DEMAGNETIZATION	–	–	POWER: OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	–	–	PLAY	REC/PLAY head erase head, capstan, pinch roller.	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	AZIMUTH	MTT-114, TCC-153 10kHz, -10dB	(B)	PLAY	Azimuth adjustment screw	Maximum output.	
II PC BOARD (X28-198X-XX)							
<1>	TAPE SPEED (HI SPEED)	MTT-111, TCC-110 3kHz -4dB	(B)	※ The Test mode is initiated when TP4 (TEST) is connected momentarily to the GND. PLAY	DECK A: VR 9 DECK B: VR11	Adjust the tape speed so that a 6kHz signal is produced at the center of the tape.	(a)
<2>	TAPE SPEED (NORMAL)	MTT-111, TCC-110 3kHz -4dB	(B)	※ In the Test mode condition, press the HIGH DUBBING Key. PLAY	DECK A: VR10 DECK B: VR12	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	(b)
<3>	PLAYBACK LEVEL	MTT-150 400Hz(200nWb)	(B)	PLAY	DECK A: VR3(L) VR4(R) DECK B: VR1(L) VR2(R)	Output level: -6.0dBs	(c)
		MTT-256 315Hz(160nWb)				Output level: -9.0dBs	
		MTT-256U, TCC-160 315Hz(220nWb)				Output level: -5.0dBs	
<4>	BIAS CURRENT	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Adjust REC LEVEL so that the REC monitor output becomes -29dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	VR5 (L) VR6 (R)	Record 1kHz and 10kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	(d)
<5>	RECORD LEVEL	(A) 1kHz, -10dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in <4>.	VR7 (L) VR8 (R)	Adjust the variable resistors so that a playback level of -9dBs is obtained.	(e)

※ The tape speed in the Test mode is switched alternately to NORMAL/HIGH SPEED by means of the NORMAL DUBBING key.
To cancel, press the NORMAL DUBBING key or RELAY key.

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE	TAPE: NORMAL, DOLBY: OFF, ENTREE: LINE					0dBs=0,775V	
I TETE D'ENREGISTREMENT/LECTURE							
[1]	DEMAGNETISATION	–	–	POWER: OFF Eloigner la porte.	Tête D'ENREGISTREMENT/LECTURE	Demagnêtiser la tête D'ENREGISTREMENT/LECTURE avec un démagnêtiseur de tête.	
[2]	NETTOYAGE	–	–	PLAY	Tête D'ENREGISTREMENT/LECTURE tête d'effacement, cabestan, galetpresseur.	Nettoyer la tête D'ENREGISTREMENT/LECTURE la tête d'effacement, le cabestan et le galetpresseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	AZIMUT	MTT-114, TCC-153 10kHz, -10dB	(B)	PLAY	Vis d'azimut	Sortie maximer.	
II PLAQUE IMPRIMEE (X28-198X-XX)							
<1>	VITESSE DE DEFILEMENT (HI SPEED)	MTT-111, TCC-110 3kHz -4dB	(B)	※Le mode de test est initialisé quand TP4 (test) est raccordé momentanément à GND. PLAY	DECK A: VR 9 DECK B: VR11	Régler la vitesse de bande de façon qu'un signal de 6kHz soit produit au centre de la bande.	(a)
<2>	VITESSE DE DEFILEMENT (NORMAL)	MTT-111, TCC-110 3kHz -4dB	(B)	※ En condition de mode de test, presser la touche HIGH DUBBING. PLAY	DECK A: VR10 DECK B: VR12	Régler la vitesse de bande de façon qu'un signal de 3kHz soit produit au centre de la bande.	(b)
<3>	NIVEAU DE LECTURE	MTT-150 400Hz(200nWb)	(B)	PLAY	DECK A: VR3(G) VR4(D) DECK B: VR1(G) VR2(D)	Niveau de sortie: -6,0dBs	(c)
		MTT-256 315Hz(160nWb)				Niveau de sortie: -9,0dBs	
		MTT-256U, TCC-160 315Hz(220nWb)				Niveau de sortie: -5,0dBs	
<4>	COURANT DE POLARISATION	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Régler REC LEVEL de façon que la sortie de moniteur REC soit de -29dBs à 1kHz, puis enregistrer et reproduire des signaux de 1kHz et 10kHz en alternance.	VR5 (G) VR6 (D)	Enregistrer un signal de 1kHz et 10kHz en alternance et ajuster les résistances variables qui commandent le courant de polarité de façon à obtenir le même niveau de lecture.	(d)
<5>	NIVEAU D'ENREGISTREMENT	(A) 1kHz, -10dBs	(B)	Enregistrer et reproduire un signal de 1kHz dans les conditions précisées en <4>.	VR7 (G) VR8 (D)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de -9dBs.	(e)

※ La vitesse de la bande en mode de test est alternativement commutée sur NORMAL/HIGH SPEED par la touche HIGH DUBBING. Pour annuler, presser la touche NORMAL DUBBING ou RELAY.

ABGLEICH

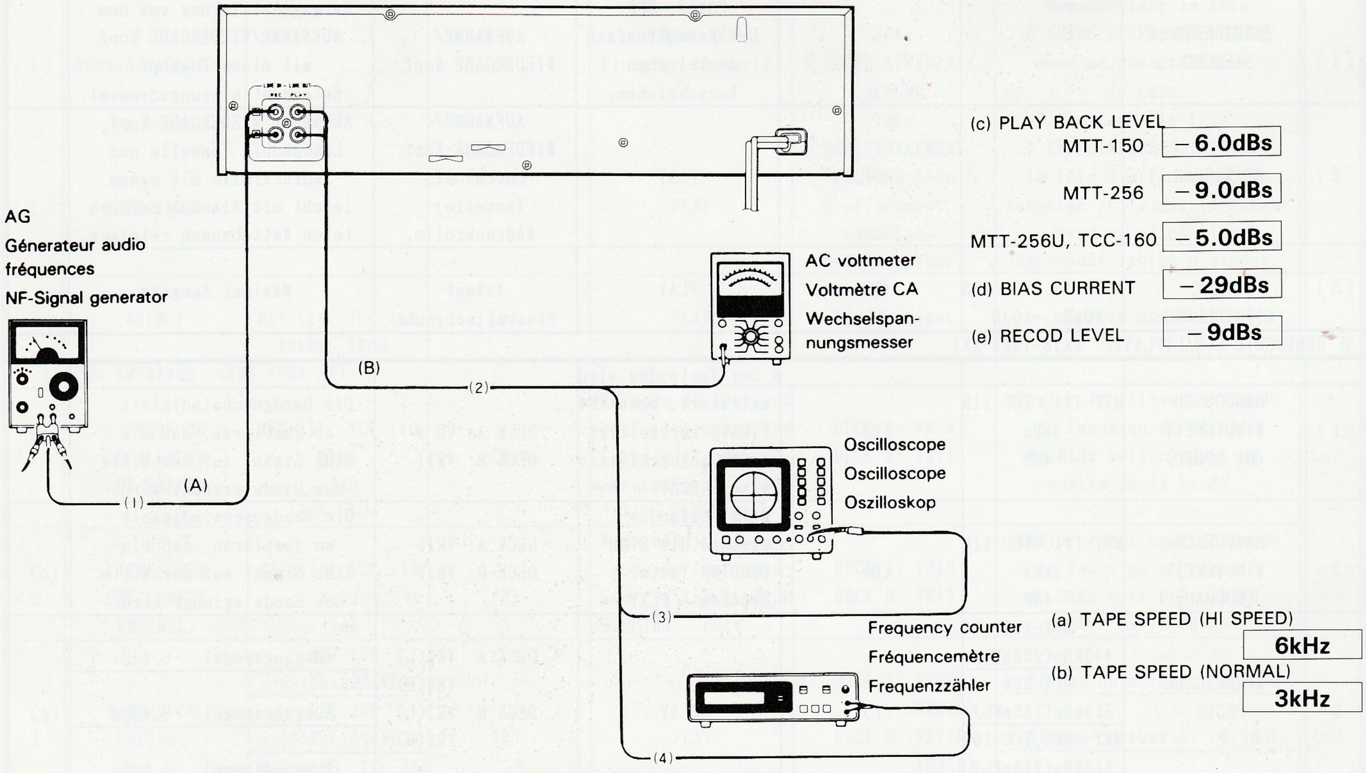
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK ABTEILUNG TAPE: NORMAL, DOLBY: OFF, EINGANG: LINE							0dBs=0,775V
I AUFNAHME/WIEDERGABE KOPF							
[1]	ENTMAGNETISIERUNG	—	—	POWER: OFF Den Kassettenfachdeckel oben herausziehen.	AUFNAHME/WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	REINIGUNG	—	—	PLAY	AUFNAHME/WIEDERGABE-Kopf Löschkopf, Tonwelle, Andruckrolle.	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.	
[3]	AZIMUT-EINSTELLUNG	MTT-114, TCC-153 10kHz.-10dB	(B)	PLAY	Azimut-Einstellschraube	Maximal Ausgang.	
II GEDRUCKTE SCHALTPLATTE (X28-198X-XX)							
<1>	BANDGESCHWINDIGKEIT (HI SPEED)	MTT-111, TCC-110 3kHz -4dB	(B)	※ Der Testmodus wird aktiviert, wenn TP4 (TEST) kurzzeitig an GND angeschlossen wind. PLAY	DECK A: VR 9 DECK B: VR11	Die Bandgeschwindigkeit so justieren, daß ein 6kHz Signal auf der Mitte des Bands erzeugt wird.	(a)
<2>	BANDGESCHWINDIGKEIT (NORMAL)	MTT-111, TCC-110 3kHz -4dB	(B)	※ Im Testmodus-zustand die HIGH DUBBIHG-Taste drücken. PLAY	DECK A: VR10 DECK B: VR12	Die Bandgeschwindigkeit so justieren, daß ein 3kHz Signal auf der Mitte des Bands erzeugt wird.	(b)
<3>	WIEDERGABE-PEGEL	MTT-150 400kHz(200nWb) MTT-256 315kHz(160nWb) MTT-256U, TCC-160 315kHz(220nWb)	(B)	PLAY	DECK A: VR3(L) VR4(R) DECK B: VR1(L) VR2(R)	Ausgangspegel: -6,0dBs Ausgangspegel: -9,0dBs Ausgangspegel: -5,0dBs	(c)
<4>	LEERLAUFSTROM	(A) 1kHz.-30dBs 10kHz.-30dBs	(B)	REC LEVEL so justieren, daß der REC Monitorausgang -29dBs bei ikHz wird, und danach abwechselnd Signale von 1kHz und 10kHz aufnehmen und wiedergeben.	VR5 (L) VR6 (R)	Signale von 1kHz und 10kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierugsstrom regeln, so justieren, daß der gleiche Wiedergabepegel erzielt wird.	(d)
<5>	AUFNAHMEPEGEL	(A) 1kHz.-10dBs	(B)	Ein 1kHz Signal unter den in Punkt <4> beschriebenen Bedingungen aufnehmen und reproduzieren.	VR7 (L) VR8 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von -9dBs erzielt wird.	(e)

※ Die Bandgeschwindigkeit im Teatmodus wird mit der HIGH DUBBING-Taste abwechseld zwischen NORMAL und HIGH SPEED umgeschaltet. Zum Aufheben die NORMAL DUBBING-Taste oder die RELAY-Taste drücken.

KX-58W/58CW

ADJUSTMENT/REGLAGES/ABGLEICH

SYSTEM CONNECTIONS



VOLTAGE TABLES

RECORDING/PLAYBACK UNIT (X28-1098-1X)

IC1

1~5	—
6	NOR: 0V HI: 5.2V
7	—
8	NC
9, 10	—
11	8.3V
12	8.3V
13	NC
14	—
15	NOR: 0.5V CrO_2/MET: 4.9V
16~29	—

IC2

1~3	—
4	REC: 12.1V PLAY: 0.1V
5	—
6	10.3V
7~9	—

IC3

1	REC: 12.1V PLAY: 0.1V
2~11	—
12	P: 0.1V REC: 8.7V
13~19	—
20	5.0V
21~28	—

IC4

1	—
2	13.5V
3	—
4	REE: 6.5V
5	OFF: 8.1V B: 6.1V C: 9.0V
6~11	—
12	P: 0.1V REC: 8.7V
13~16	—

IC5

1	32.6V
2	—
3	18.1V

IC6

1	5.0V
2	—
3	—

IC7

1	6.4V
2	6.4V
3	5.7V
4	—
5	5.7V
6	6.4V
7	6.4V
8	12.7V

IC8

1~5	—
6	HI-DUB: 10.5V
7	HI-DUB: 10.5V
8~16	—

IC9

1	HI-DUB: 10.5V
2	HI-DUB: 10.5V

IC10

1	HI-DUB: 10.5V
2	HI-DUB: 10.5V
3~9	—

IC11

1~8	—
9	12.5V
10	2.7V
11~17	—
18	2.1V

IC12

1	9.1V
2	9.1V
3	7.9V
4	—
5	7.9V
6	9.0V
7	9.1V
8	18.1V

Q1

E	—
C	—
B	ON: 0.7V

Q2

E	—
C	—
B	ON: 0.7V

Q3

E	—
C	—
B	ON 0.7V

Q4

E	—
C	—
B	ON: 0.7V

Q5, 6, 7, 8, 9, 10

E	—
C	—
B	—

Q11

E	12.9V
C	18.1V
B	13.2V

Q12

E	—
C	18.1V
B	—

Q13, 14

E	6.3V
C	—
B	—

Q15

E	—
C	—
B	ON: 0.7V OFF: 0V

Q16

E	—
C	—
B	ON: 0.7V

Q17

E	—
C	HI-DUB: 10.5V
B	—

Q18

E	13.5V
C	18.1V
B	14.1V

Q19

E	—
C	—
B	—

Q20

E	—
C	NOR: 9.4V CrO_2: 5.6V MET: 0.4V
B	—

Q21~24

E	—
C	—
B	—

Q25, 26

E	5.0V
C	—
B	—

Q27, 28

E	3.7V
C	NOR: 2.7V MUTE ON: 0V
B	—

Q29

E	—
C	—
B	—

Q30

E	—
C	12.6V
B	—

Q31

E	—
C	—
B	—

Q32

E	5.0V
C	12.6V
B	5.5V

Q33

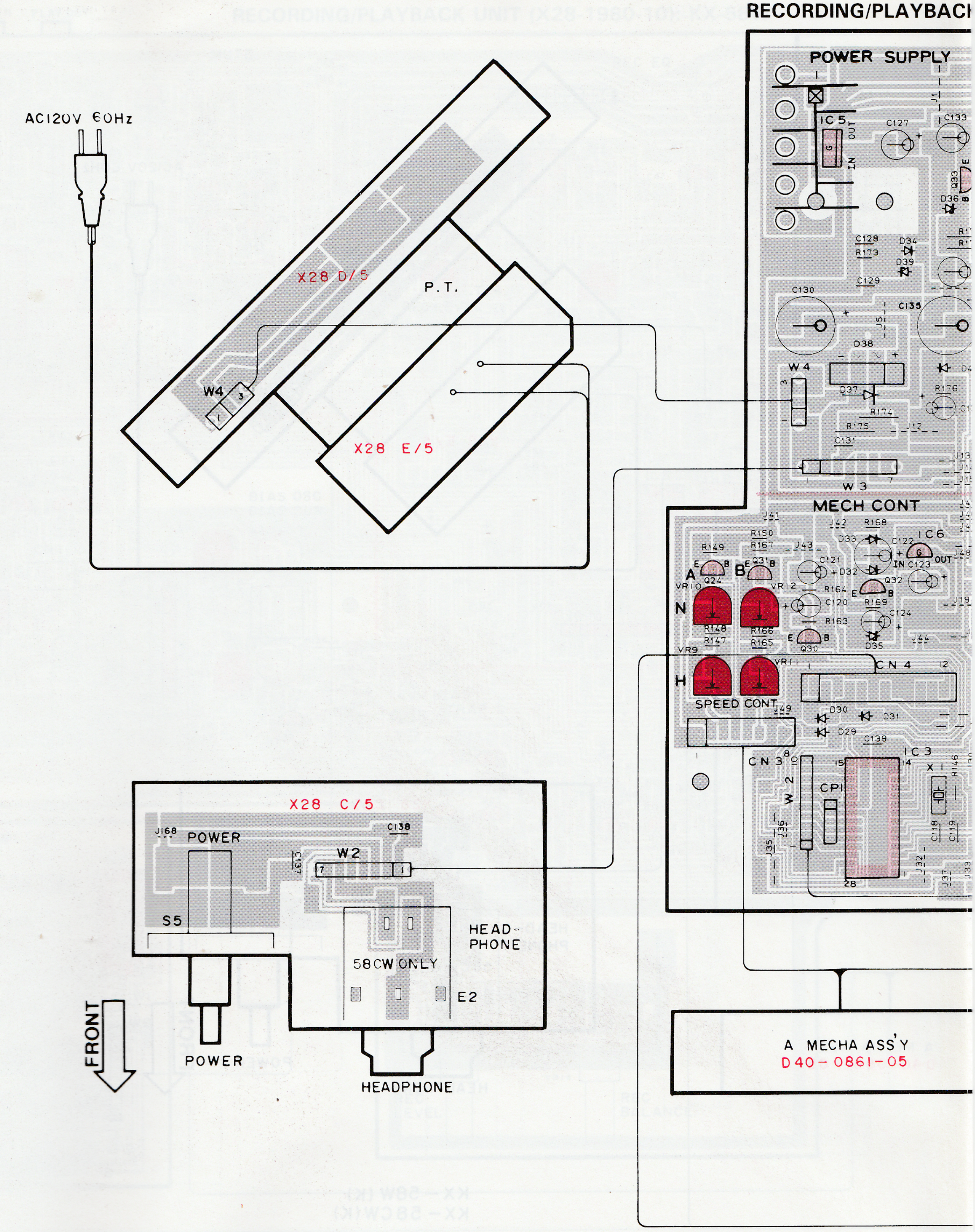
E	12.6V
C	15.5V
B	13.3V

ELECTRIC CIRCUIT MODULE (W02-0693-05)

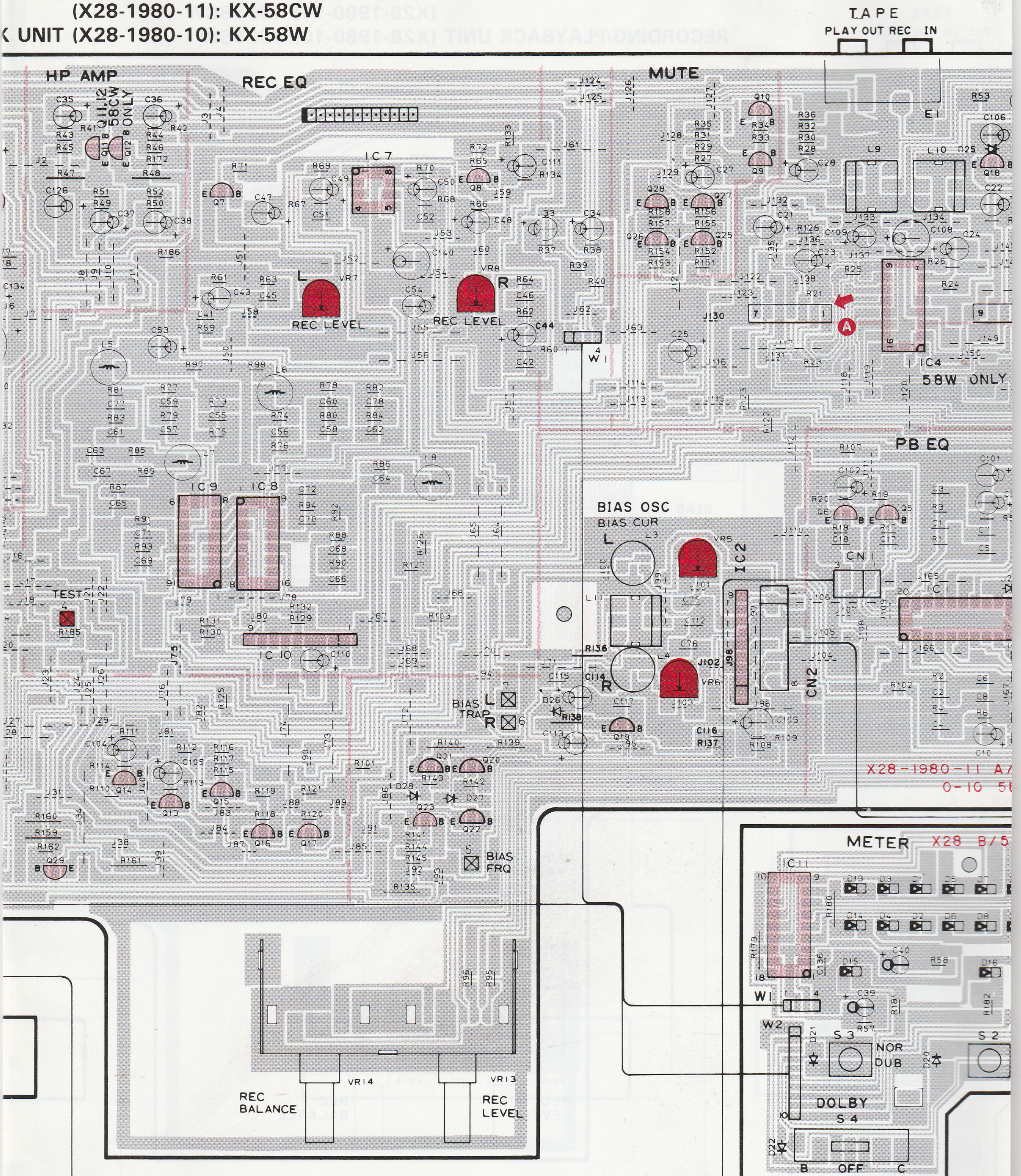
IC1

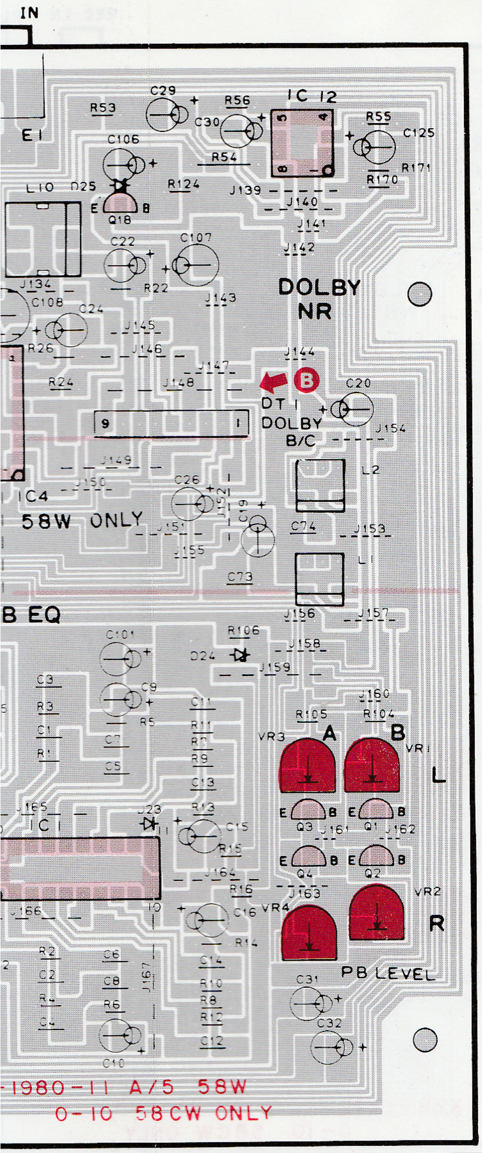
1~3	—
4	REF: 6.8V
5	OFF: 8.1V B: 6.1V C: 9.0V
6~37	—
38	P: 0.1V REC: 8.7V
39~41	—
42	13.5V

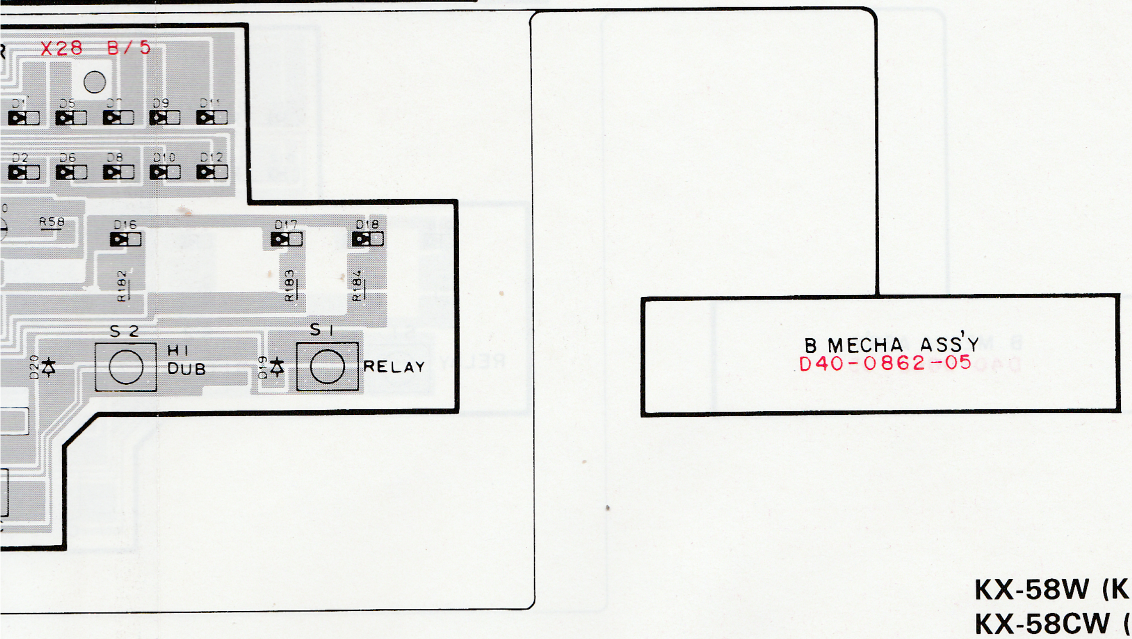
PC BOARD (Component side view)

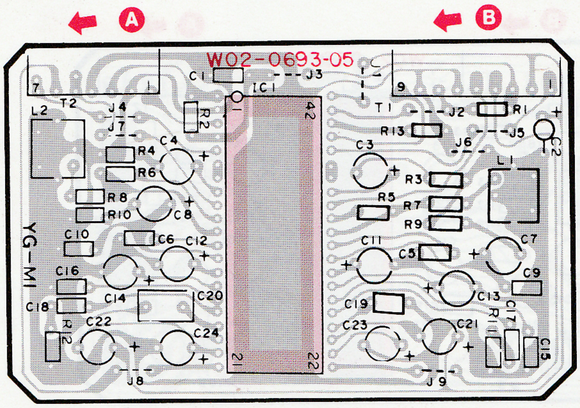


(X28-1980-11): KX-58CW
UNIT (X28-1980-10): KX-58W









KX-58CW ONLY

ELECTRIC CIRCUIT MODULE (W02-0693-05)

ELECTRIC CIRCUIT MODULE (W02-0693-05): KX-58CW only

Ref. No.		Address
IC	Q	
1		2L

RECORDING/PLAY-BACK UNIT (X28-1980-11): KX-58W (X28-1980-10): KX-58CW

Ref. No.		Address
IC	Q	
	1	4K
	2	4K
	3	4J
	4	4J
	5	3I
	6	3I
	7	2F
	8	2G
	9	2I
	10	1I
	11	2F
	12	2F
	13	5F
	14	5F
	15	5F
	16	5F
	17	5G
	18	2J
	19	4H
	20	5G
	21	5G
	22	5G
	23	5G
	24	4D
	25	2H
	26	2H
	27	2H
	28	2H
	29	5E
	30	4D
	31	4D
	32	4E
	33	2E
1		4J
2		4I
3		5E
4		2I
5		2D
6		4E
7		2G
8		3F
9		3F
10		4G
11		5I
12		1J

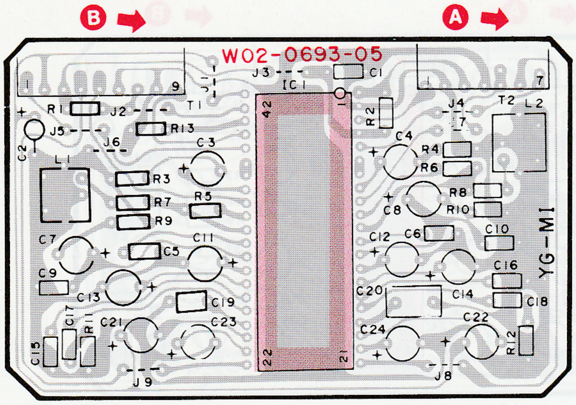
KX-58W (K)
KX-58CW (K)

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

RECORDING/PLAY-BACK UNIT (X28-1980-11): KX-58W (X28-1980-10): KX-58CW

Ref. No.		Address
IC	Q	
	1	4R
	2	4R
	3	4R
	4	4R
	5	3T
	6	3T
	7	2W
	8	2U
	9	2T
	10	1T
	11	2W
	12	2W
	13	5W
	14	5W
	15	5W
	16	5W
	17	5V
	18	2S
	19	4U
	20	5V
	21	5V
	22	5V
	23	5V
	24	4Y
	25	2T
	26	2U
	27	2T
	28	2U
	29	5X
	30	4X
	31	4Y
	32	4X
	33	2X
1		4S
2		4T
3		5X
4		2S
5		2X
6		4X
7		2V
8		3W
9		3W
10		4V
11		5T
12		1R

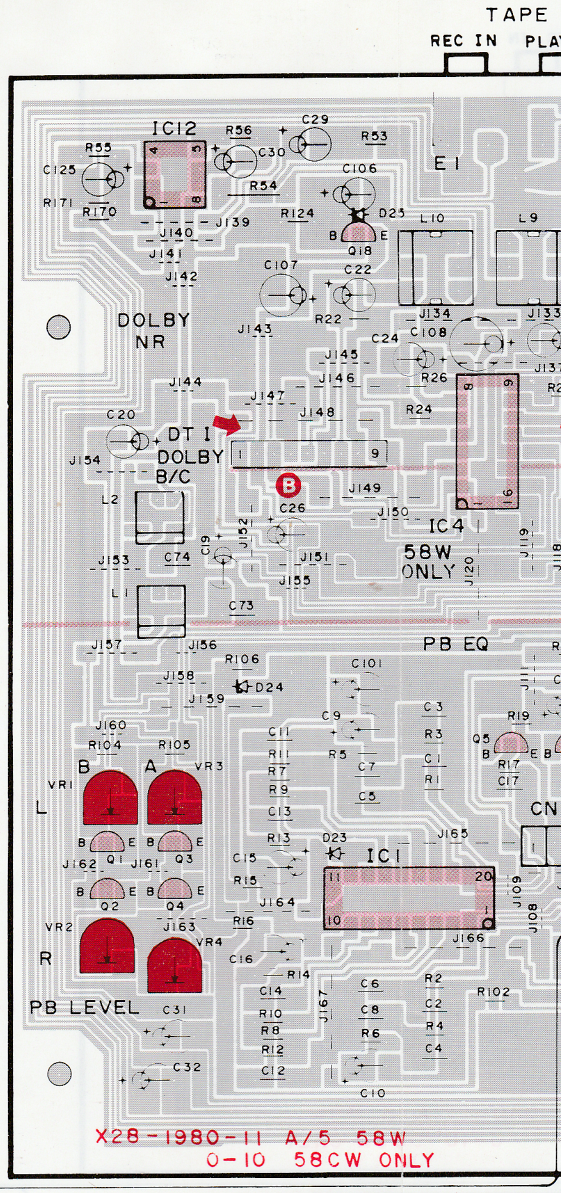


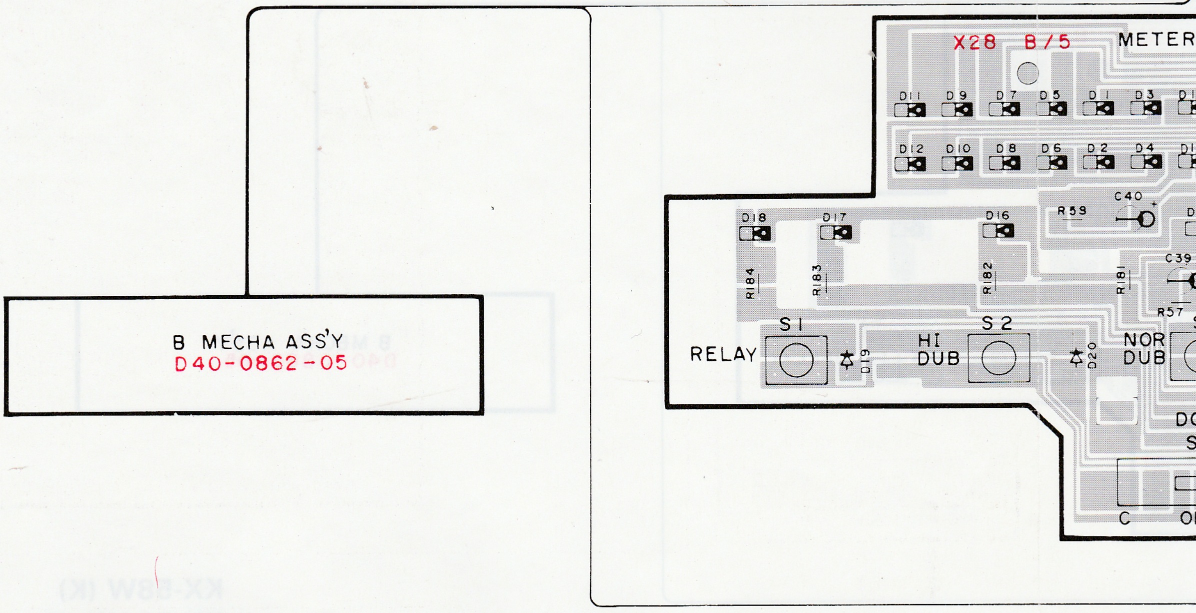
KX-58CW ONLY

ELECTRIC CIRCUIT MODULE (W02-0693-05)

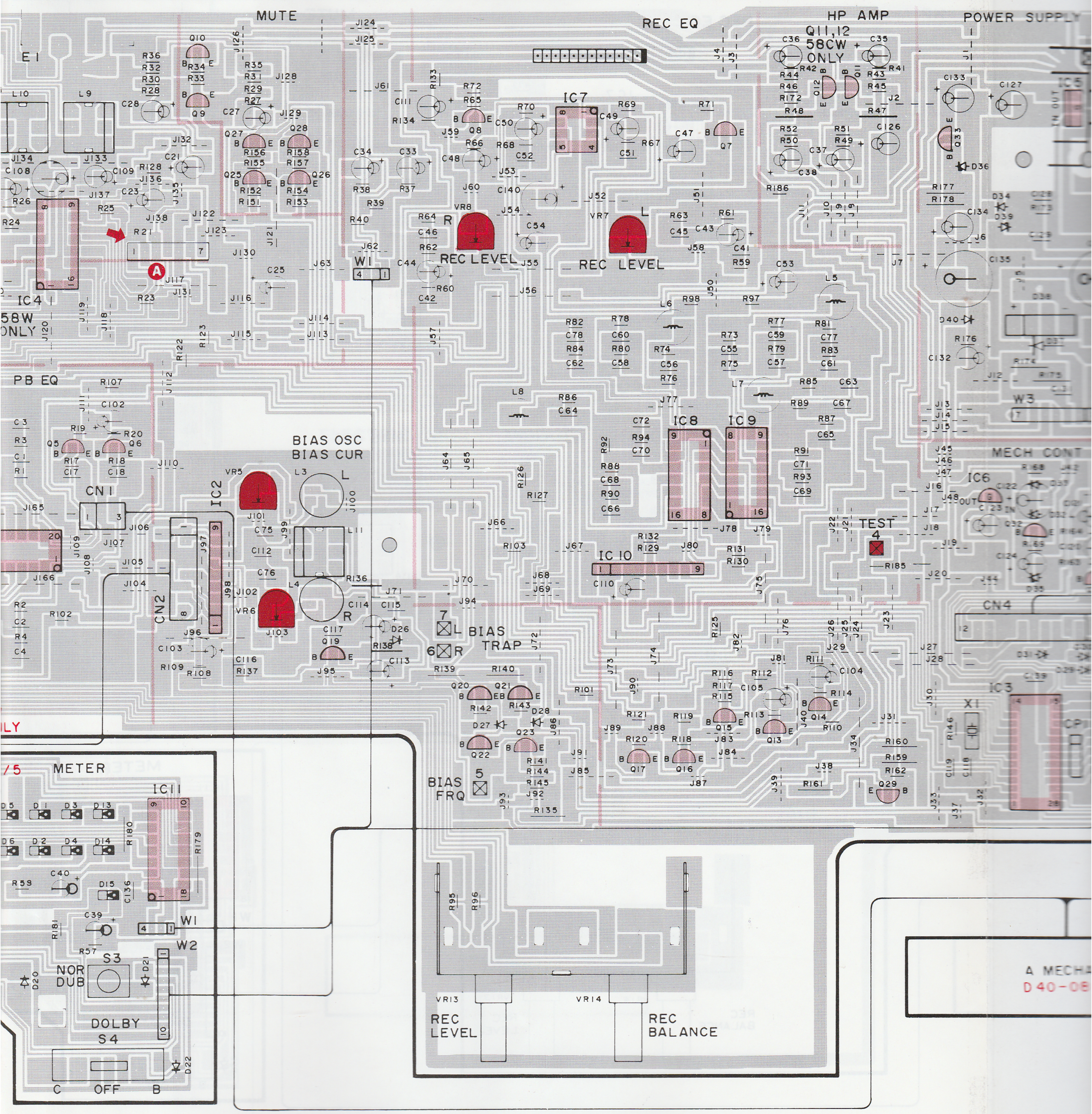
ELECTRIC CIRCUIT MODULE (W02-0693-05): KX-58CW only

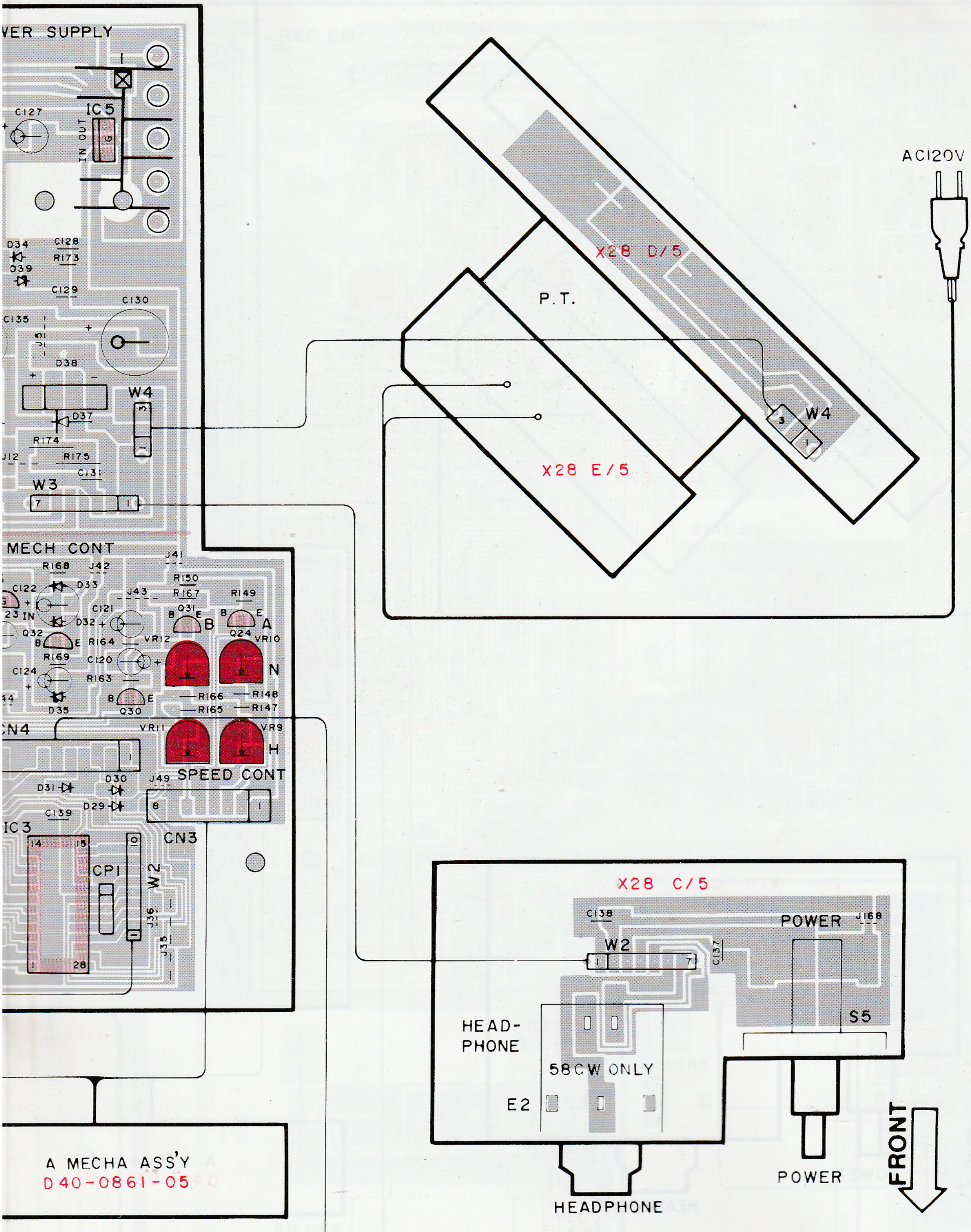
Ref. No.		Address
IC	Q	
1		2P





(X28-1980-11): KX-58CW
RECORDING/PLAYBACK UNIT (X28-1980-10): KX-58W

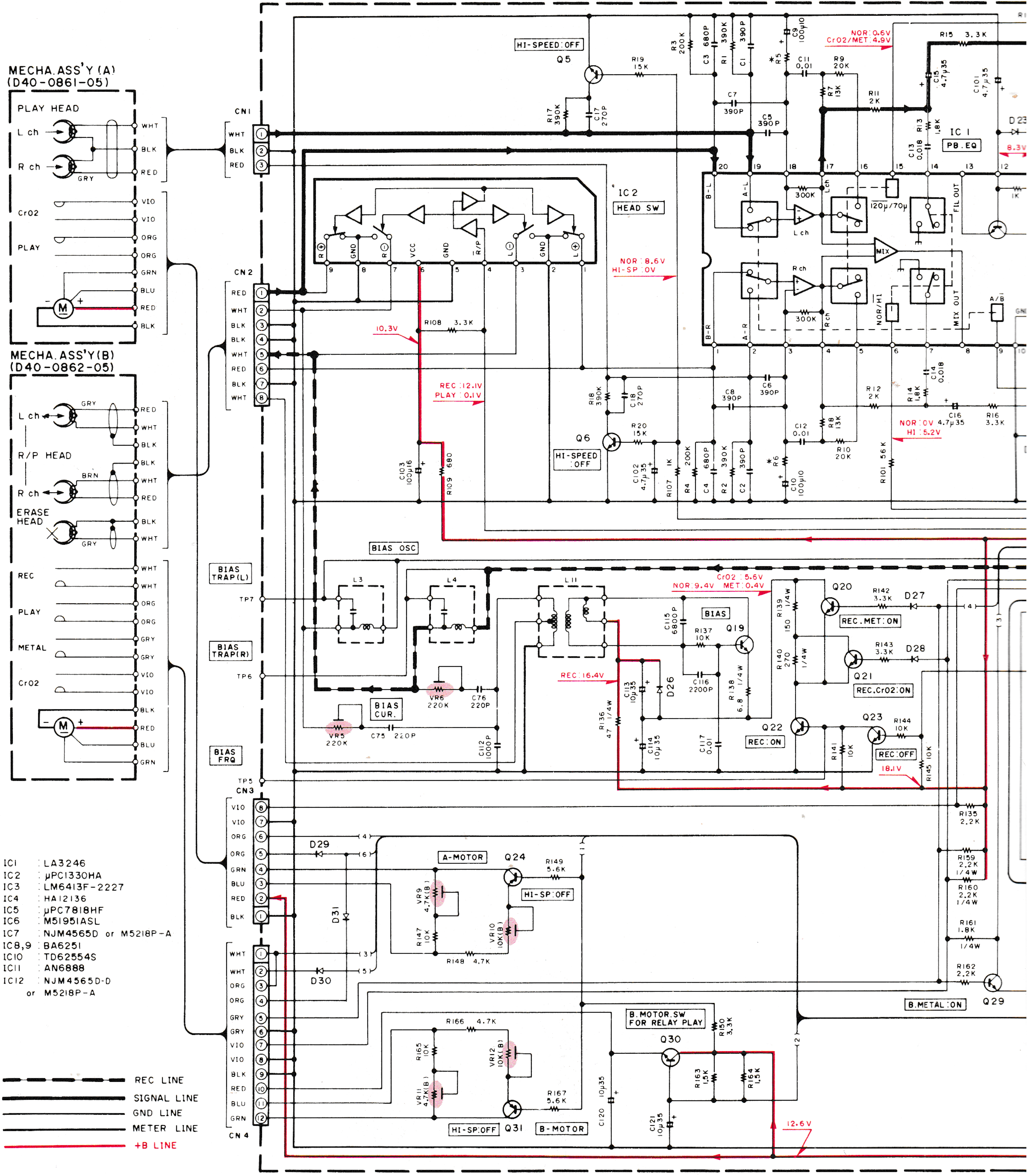




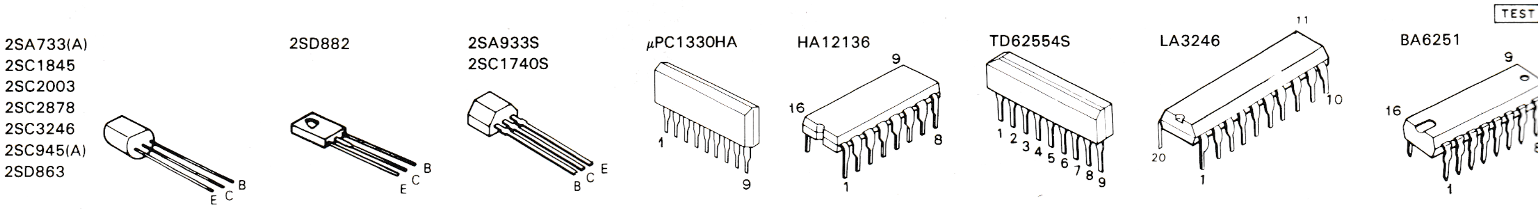
KX-58W(K)
KX-58CW(K)

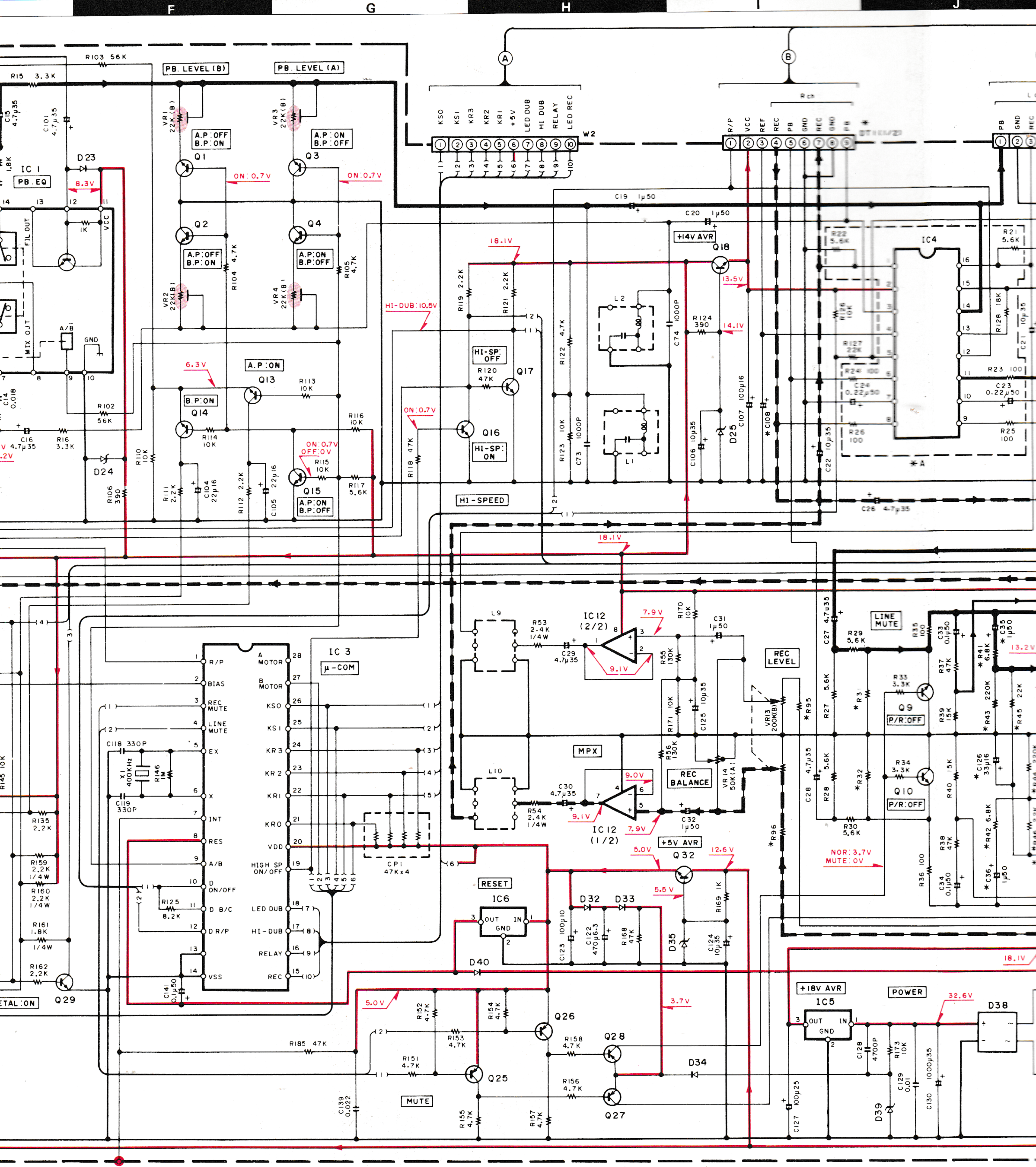
Refer to the schematic diagram for the values of resistors and capacitors.

(X28-1980-11)(A/5) : KX-58W
(X28-1980-10)(A/5) : KX-58CW

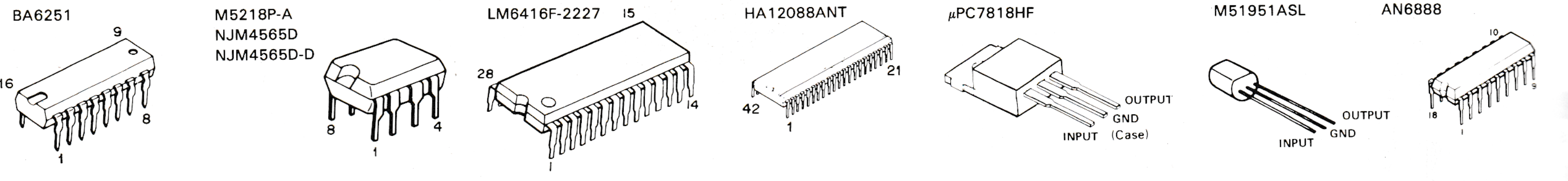


IC1	: LA3246
IC2	: µPC1330HA
IC3	: LM6413F-2227
IC4	: HA12136
IC5	: µPC7818HF
IC6	: M51951ASL
IC7	: NJM4565D or M5218P-A
IC8,9	: BA6251
IC10	: TD62554S
IC11	: AN6888
IC12	: NJM4565D-D or M5218P-A

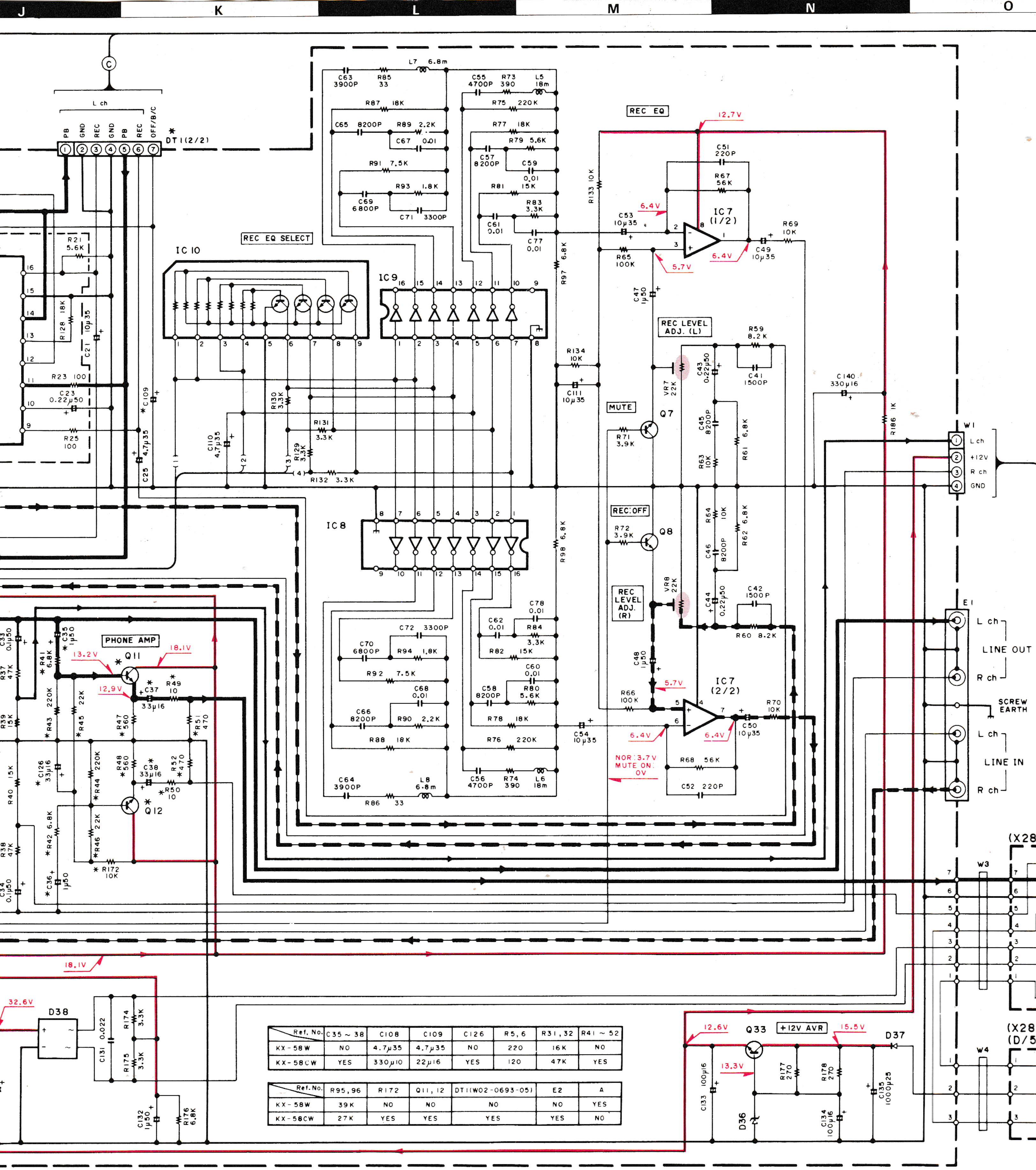




F
G
H
J
PB. LEVEL (B)
PB. LEVEL (A)
R103 56K
R15 3.3K
C15 4.7μ35
C101 4.7μ35
VR1 22K(B)
VR3 22K(B)
A.P:OFF B.P:ON
A.P:ON B.P:OFF
Q1
Q2
Q3
Q4
IC 1
PB.EQ
D23
8.3V
ON:0.7V
FIL OUT
VCC
MIX OUT
A/B
GND
R104 4.7K
R105 4.7K
VR2 22K(B)
VR4 22K(B)
6.3V
A.P:ON
Q13
R113 10K
B.P:ON
Q14
R102 56K
C16 4.7μ35
R16 3.3K
R114 10K
R116 10K
ON:0.7V OFF:0V
R115 10K
Q15
R117 5.6K
A.P:ON B.P:OFF
D24
R110 10K
R106 390
R111 2.2K
C104 22μ16
R112 2.2K
C105 22μ16
Ⓐ
Ⓑ
KSO
KS1
KR3
KR2
KR1
+5V
LED DUB
HI DUB
RELAY
LED REC
W2
R/P
VCC
REF
REC
PB
GND
R ch
L ch
C19 1μ50
C20 1μ50
+14V AVR
Q18
18.1V
13.5V
HI-DUB:10.5V
R119 2.2K
R121 2.2K
HI-SP: OFF
R120 47K
Q17
ON:0.7V
Q16
HI-SP: ON
R118 47K
R122 4.7K
R123 10K
C73 1000P
L2
L1
C74 1000P
R124 390
14.1V
C107 100μ16
D25
C106 10μ35
*C108
C22 10μ35
HI-SPEED
C26 4.7μ35
IC4
R22 5.6K
R21 5.6K
R126 10K
R128 18K
R127 22K
C21 10μ35
R24 100
R23 100
C24 0.22μ50
C23 0.22μ50
R26 100
R25 100
*A
18.1V
L9
R53 2.4K 1/4W
C29 4.7μ35
IC12 (2/2)
7.9V
9.1V
R170 10K
C31 1μ50
R55 130K
R171 10K
C125 10μ35
MPX
L10
C30 4.7μ35
R54 2.4K 1/4W
9.0V
9.1V
IC12 (1/2)
7.9V
R56 130K
REC BALANCE
C32 1μ50
VR14 50K(A)
VR13 200K(B)
REC LEVEL
*R95
*R96
C27 4.7μ35
LINE MUTE
R29 5.6K
R35 100
C33 0.1μ50
*C35 1μ50
13.2V
R37 47K
*R41 6.8K
R27 5.6K
*R31
R33 3.3K
Q9
P/R:OFF
R39 15K
*R43 220K
*R45 22K
C28 4.7μ35
R28 5.6K
*R32
R34 3.3K
Q10
P/R:OFF
R40 15K
*C126 33μ16
R30 5.6K
R38 47K
*R42 6.8K
NOR:3.7V MUTE:0V
R36 100
C34 0.1μ50
*C36 1μ50
IC 3
μ-COM
R/P
BIAS
REC MUTE
LINE MUTE
EX
X
INT
RES
A/B
D ON/OFF
D B/C
D R/P
VSS
A MOTOR
B MOTOR
KSO
KS1
KR3
KR2
KR1
KR0
VDD
HIGH SP ON/OFF
LED DUB
HI-DUB
RELAY
REC
C118 330P
X1 400KHz
R146 1M
C119 330P
R125 8.2K
C141 0.1μ50
CP1 47K×4
R145 10K
R135 2.2K
R159 2.2K 1/4W
R160 2.2K 1/4W
R161 1.8K 1/4W
R162 2.2K
Q29
METAL:ON
TEST
TP4
RESET
IC6
OUT IN
GND
D40
5.0V
+5V AVR
Q32
12.6V
5.5V
D32
D33
C123 100μ10
C122 470μ6.3
R168 47K
D35
R169 1K
C124 10μ35
3.7V
R152 4.7K
R154 4.7K
Q26
R153 4.7K
R158 4.7K
Q28
D34
R185 47K
R151 4.7K
Q25
R156 4.7K
Q27
MUTE
C139 0.022
R155 4.7K
R157 4.7K
+18V AVR
IC5
POWER
32.6V
D38
18.1V
C128 4700P
R173 10K
C130 1000μ35
C129 0.01
D39
C127 100μ25



BA6251
M5218P-A
NJM4565D
NJM4565D-D
LM6416F-2227
HA12088ANT
μPC7818HF
M51951ASL
AN6888
OUTPUT
GND
INPUT
(Case)



Ref. No.	C35 ~ 38	C108	C109	C126	R5, 6	R31, 32	R41 ~ 52
KX-58W	NO	4.7μ35	4.7μ35	NO	220	16K	NO
KX-58CW	YES	330μ10	22μ16	YES	120	47K	YES

Ref. No.	R95, 96	R172	Q11, 12	DT1(W02-0693-05)	E2	A
KX-58W	39K	NO	NO	NO	NO	YES
KX-58CW	27K	YES	YES	YES	YES	NO

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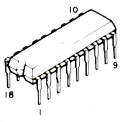
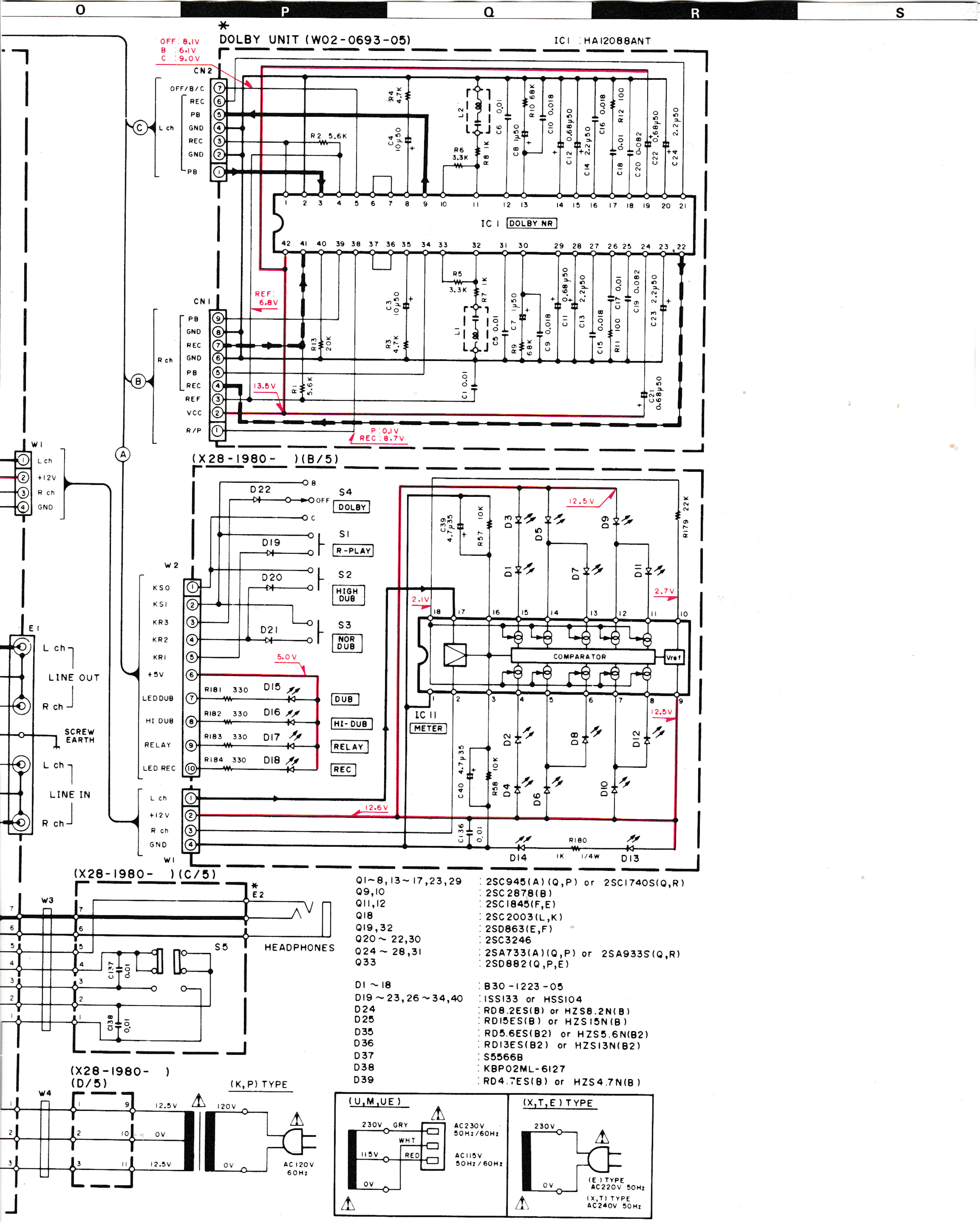


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurée
mètre à haute impédance, une cassette
mode du lecture. Les valeurs peuvent
ment du fait des variations inhérentes
aux instruments de mesure individuels.
Les tensions c.c. du circuit de polari
mesurées, l'appareil étant en mode d'enr



Q1~8,13~17,23,29	: 2SC945(A)(Q,P) or 2SC1740S(Q,R)
Q9,10	: 2SC2878(B)
Q11,12	: 2SC1845(F,E)
Q18	: 2SC2003(L,K)
Q19,32	: 2SD863(E,F)
Q20~22,30	: 2SC3246
Q24~28,31	: 2SA733(A)(Q,P) or 2SA933S(Q,R)
Q33	: 2SD882(Q,P,E)
D1~18	: B30-1223-05
D19~23,26~34,40	: 1SS133 or HSS104
D24	: RD8.2ES(B) or HZS8.2N(B)
D25	: RD15ES(B) or HZS15N(B)
D35	: RD5.6ES(B2) or HZS5.6N(B2)
D36	: RD13ES(B2) or HZS13N(B2)
D37	: S5566B
D38	: KBP02ML-6127
D39	: RD4.7ES(B) or HZS4.7N(B)

KX-58W/58CW(K)

nt être mesurées avec un volt-
ce, une cassette étant insérée en
valeurs peuvent différer légère-
ions inhérentes aux appareils et
re individuels.
circuit de polarité doivent être
t en mode d'enregistrement.

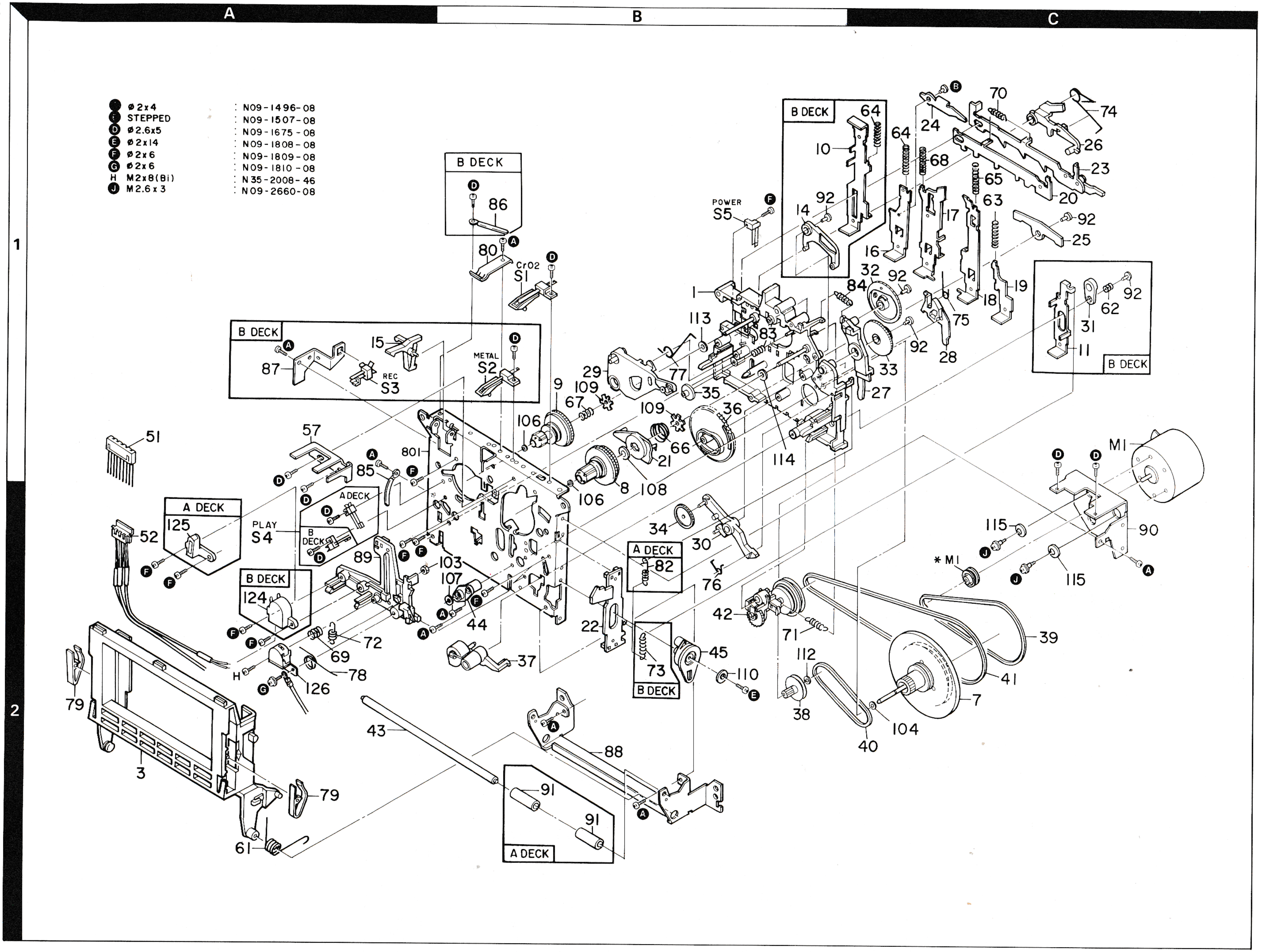
Die angegeben Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegeben Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

Y26-2900-10

KX-58W/58CW

KENWOOD

EXPLODED VIEW (MECHANISM)

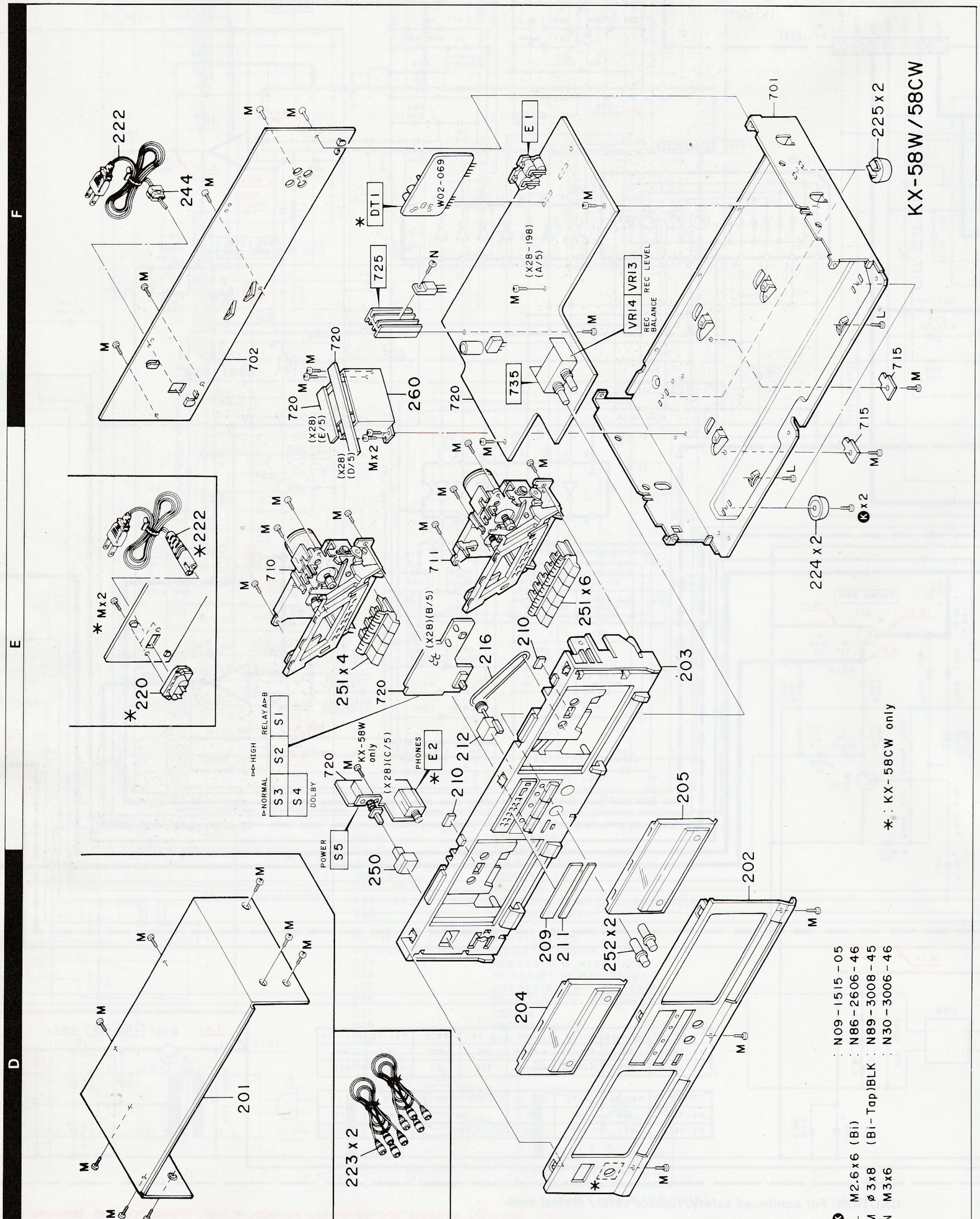


A	ø2x4	: N09-1496-08
B	STEPPED	: N09-1507-08
D	ø2.6x5	: N09-1675-08
E	ø2x14	: N09-1808-08
F	ø2x6	: N09-1809-08
G	ø2x6	: N09-1810-08
H	M2x8(Bi)	: N35-2008-46
J	M2.6x3	: N09-2660-08

Parts with the exploded numbers larger than 700 are not supplied.

KX-58W/58CW

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

⁎ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KX-58W/58CW						
201	1D	*	A01-1739-01	METALLIC CABINET		
202	2D	*	A20-5752-02	PANEL		C
202	2D	*	A20-5760-02	PANEL		W
203	2E	*	A22-1073-01	SUB PANEL		C
203	2E	*	A22-1074-01	SUB PANEL		W
204	2D	*	A53-1098-03	CASSETTE LID		
205	2E	*	A53-1099-03	CASSETTE LID		
209	1D	*	B03-2517-04	DRESSING PLATE		
210	1E,2E		B07-1720-04	ESCUTCHEON		
211	2D	*	B11-0215-04	SMOKED FILTER		
212	1E		B35-0036-05	TAPE COUNTER		
--			B46-0092-03	WARRANTY CARD	K	
--			B46-0096-13	WARRANTY CARD	X	C
--			B46-0121-03	WARRANTY CARD	P	
--			B46-0122-13	WARRANTY CARD	E	
--		*	B50-9435-00	INSTRUCTION MANUAL	KP	
--		*	B50-9436-00	INSTRUCTION MANUAL	PME	
--		*	B50-9437-00	INSTRUCTION MANUAL	M	C
--		*	B50-9438-00	INSTRUCTION MANUAL	E	C
--		*	B59-0155-04	SUB-INSTRUCTION MANUAL	P	C
216	1E		D16-0096-04	BELT		
⚠ 220	1E		E03-0102-25	AC INLET	M	C
⚠ 222	1F		E30-0181-05	AC POWER CORD	KP	
⚠ 222	1F		E30-0459-05	AC POWER CORD	E	
⚠ 222	1E		E30-1305-15	AC POWER CORD (INLET)	M	C
⚠ 222	1F		E30-1341-05	AC POWER CORD	X	C
223	1D		E30-0615-05	AUDIO CORD		
--		*	H01-8434-04	ITEM CARTON CASE		C
--		*	H01-8506-04	ITEM CARTON CASE		W
--		*	H10-3786-02	POLYSTYRENE FOAMED FIXTURE		
--		*	H10-3787-02	POLYSTYRENE FOAMED FIXTURE		
--			H20-0554-04	PROTECTION COVER	M	C
--			H25-0232-04	PROTECTION BAG (235X350X0.03)		
--			H25-0330-04	PROTECTION BAG	KPXE	
224	2E		J02-0161-04	FOOT		
225	2F		J02-0366-15	FOOT		
⚠ 244	1F		J42-0083-05	POWER CORD BUSHING	KPXE	
--			J61-0307-05	WIRE BAND		
250	1D		K27-1965-04	KNOB (POWER)		
251	1E,2E	*	K29-3582-03	KNOB (PAUSE,REC PLAY)		
252	2D		K29-3591-04	KNOB (REC BALANCE,REC LEVEL)		
⚠ 260	1F		L01-7811-05	POWER TRANSFORMER	KP	
⚠ 260	1F		L01-7812-05	POWER TRANSFORMER	XE	
⚠ 260	1F		L01-7814-05	POWER TRANSFORMER	M	C
K	2E		N09-1515-05	TAPPING SCREW (3X8)		
L	2E,2F		N86-2606-46	BINDING HEAD TAPTITE SCREW		
M	1D,2F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
RECORDING/PLAYBACK UNIT (X28-198X-XX) (0-10: KX-58CW, 0-11: KX-58W)						
D1 -18			B30-1223-05	LED(LN21CPH(V)-C)		

E: Scandinavia & Europe **K**: USA **P**: Canada
U: PX(Far East, Hawaii) **T**: England **M**: Other Areas
UE : AAFES(Europe) **X**: Australia

W: KX-58W
C: KX-58CW

⚠ indicates safety critical components.

KX-58W/58CW

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C1 ,2			CK45FB1H391K	CERAMIC 390PF K		
C3 ,4			CK45FB1H681K	CERAMIC 680PF K		
C5 -8			CK45FB1H391K	CERAMIC 390PF K		
C9 ,10			CE04KW1A101M	ELECTRO 100UF 10WV		
C11 ,12			CF92FV1H103J	MF 0.010UF J		
C13 ,14			CF92FV1H183J	MF 0.018UF J		
C15 ,16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17 ,18			CC45FSL1H271J	CERAMIC 270PF J		
C19 ,20			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C21 ,22			CE04KW1V100M	ELECTRO 10UF 35WV		
C23 ,24			CE04KW1HR22M	ELECTRO 0.22UF 50WV		W
C25 -30			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C31 ,32			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C33 ,34			CE04KW1HR1M	ELECTRO 0.1UF 50WV		
C35 ,36			CE04KW1H010M	ELECTRO 1.0UF 50WV		C
C37 ,38			CE04KW1C330M	ELECTRO 33UF 16WV		C
C39 ,40			CE04JW1V4R7M	ELECTRO 4.7UF 35WV		
C41 ,42			CF92FV1H152J	MF 1500PF J		
C43 ,44			CE04KW1HR22M	ELECTRO 0.22UF 50WV		
C45 ,46			CF92FV1H822J	MF 8200PF J		
C47 ,48			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C49 ,50			CE04KW1V100M	ELECTRO 10UF 35WV		
C51 ,52			CC45FSL1H221J	CERAMIC 220PF J		
C53 ,54			CE04KW1V100M	ELECTRO 10UF 35WV		
C55 ,56			CF92FV1H472J	MF 4700PF J		
C57 ,58			CF92FV1H822J	MF 8200PF J		
C59 -62			CF92FV1H103J	MF 0.010UF J		
C63 ,64			CF92FV1H392J	MF 3900PF J		
C65 ,66			CF92FV1H822J	MF 8200PF J		
C67 ,68			CF92FV1H103J	MF 0.010UF J		
C69 ,70			CF92FV1H682J	MF 6800PF J		
C71 ,72			CF92FV1H332J	MF 3300PF J		
C73 ,74			CK45FB1H102K	CERAMIC 1000PF K		
C75 ,76			CC45FSL1H221J	CERAMIC 220PF J		
C77 ,78			CF92FV1H103J	MF 0.010UF J		
C101,102			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C103			CE04KW1C101M	ELECTRO 100UF 16WV		
C104,105			CE04KW1C220M	ELECTRO 22UF 16WV		
C106			CE04KW1V100M	ELECTRO 10UF 35WV		
C107			CE04KW1C101M	ELECTRO 100UF 16WV		
C108			CE04KW1A331M	ELECTRO 330UF 10WV		
C109			CE04KW1C220M	ELECTRO 22UF 16WV		C
C109			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		W
C110			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C111			CE04KW1V100M	ELECTRO 10UF 35WV		
C112			C91-0773-05	POLYPRO 1000PF J		
C113,114			CE04KW1V100M	ELECTRO 10UF 35WV		
C115			CF92FV1H682J	MF 6800PF J		
C116			CF92FV1H222J	MF 2200PF J		
C117			CF92FV1H103J	MF 0.010UF J		
C118,119			CC45FSL1H331J	CERAMIC 330PF J		
C120,121			CE04KW1V100M	ELECTRO 10UF 35WV		
C122			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C123			CE04KW1A101M	ELECTRO 100UF 10WV		
C124,125			CE04KW1V100M	ELECTRO 10UF 35WV		

E: Scandinavia & Europe K: USA P: Canada
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UE: AAFES(Europe) X: Australia

W: KX-58W
C: KX-58CW

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C126			CE04KW1C330M	ELECTRO 33UF 16WV		C
C127			CE04KW1E101M	ELECTRO 100UF 25WV		
C128			CF92FV1H472J	MF 4700PF J		
C129			CK45FF1H103Z	CERAMIC 0.010UF Z		
C130			CE04KW1V102M	ELECTRO 1000UF 35WV		
C131			CK45FF1H223Z	CERAMIC 0.022UF Z		
C132			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C133,134			CE04KW1C101M	ELECTRO 100UF 16WV		
C135			CE04KW1E102M	ELECTRO 1000UF 25WV		
C136-138			CK45FF1H103Z	CERAMIC 0.010UF Z		
C139			CK45FF1H223Z	CERAMIC 0.022UF Z		
C140			CE04KW1C331M	ELECTRO 330UF 16WV		
C141			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
E1			E13-0446-05	PHONO JACK (4P)		
E2			E11-0162-05	PHONE JACK (3P)		C
L1 ,2			L39-0145-05	LW OSCILLATING COIL		
L3 ,4			L39-0171-05	TRAP COIL		
L5 ,6			L40-1835-29	SMALL FIXED INDUCTOR(18MH,G)		
L7 ,8			L40-6825-29	SMALL FIXED INDUCTOR(6.8MH,J)		
L9 ,10			L79-0720-05	LC FILTER		
L11			L32-0381-05	BIAS OSCILATING COIL		
X1			L78-0202-05	RESONATOR (400KHZ)		
M	2F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
N	1F		N30-3006-46	PAN HEAD MACHINE SCREW		
CP1			R90-0487-05	MULTI-COMP 47KX4 J 1/6W		
R47 ,48			RS14KB3A561J	FL-PROOF RS 560 J 1W		C
R136			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
R138			RD14GB2E6R8J	FL-PROOF RD 6.8 J 1/4W		
VR1 -4			R12-3128-05	TRIMMING POT.(22K)PB LEVEL		
VR5 ,6			R12-5071-05	TRIMMING POT.(220K)BIAS CURR.		
VR7 ,8			R12-3128-05	TRIMMING POT.(22K) REC LEVEL		
VR9			R12-1089-05	TRIMMING POT.(4.7K)TAPE SPEED		
VR10			R12-3126-05	TRIMMING POT.(10K) TAPE SPEED		
VR11			R12-1089-05	TRIMMING POT.(4.7K)TAPE SPEED		
VR12			R12-3126-05	TRIMMING POT.(10K)		
VR13			R06-4079-05	POTENTIOMETER		
VR14			R01-5065-05	POTENTIOMETER		
S1 -3			S40-1064-05	PUSH SWITCH		
S4			S31-1017-05	SLIDE SWITCH		
S5			S40-2358-05	PUSH SWITCH (POWER TYPE)		
D19 -23			HSS104	DIODE		
D19 -23			1SS133	DIODE		
D24			HZS8.2N(B)	ZENER DIODE		
D24			RD8.2ES(B)	ZENER DIODE		
D25			HZS15N(B)	ZENER DIODE		
D25			RD15ES(B)	ZENER DIODE		
D26 -34			HSS104	DIODE		
D26 -34			1SS133	DIODE		
D35			HZS5.6N(B2)	ZENER DIODE		
D35			RD5.6ES(B2)	ZENER DIODE		
D36			HZS13N(B2)	ZENER DIODE		
D36			RD13ES(B2)	ZENER DIODE		

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W: KX-58W
C: KX-58CW

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PARTS LIST

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D37			S5566B	DIODE		
D38			KBP02ML-6127	DIODE		
D39			HZS4.7N(B)	ZENER DIODE		
D39			RD4.7ES(B)	ZENER DIODE		
D40			HSS104	DIODE		
D40			1SS133	DIODE		
IC1			LA3246	IC(PREAMP X2)		
IC2			UPC1330HA	IC(2CH HEAD SWITCHING)		
IC3		*	LM6416F-2227	IC(MICROPROCESSOR)		
IC4			HA12136	IC(DOLBY B NR SYSTEM)		W
IC5			UPC7818HF	IC(VOLTAGE REGULATOR/ +18V)		
IC6			M51951ASL	IC(SYSTEM RESET)		
IC7			M5218P-A	IC(OP AMP X2)		
IC7			NJM4565D	IC(OP AMP X2)		
IC8 ,9			BA6251	IC(7CH TRANSISTOR ARRAY)		
IC10			TD62554S	IC(4CH TRANSISTOR ARRAY)		
IC11			AN6888	IC(5PT LED LEVEL METER DR X2)		
IC12			M5218P-A	IC(OP AMP X2)		
IC12			NJM4565D-D	IC(OP AMP X2)		
Q1 -8			2SC1740S(Q,R)	TRANSISTOR		
Q1 -8			2SC945(A)(Q,P)	TRANSISTOR		
Q9 ,10			2SC2878(B)	TRANSISTOR		
Q11 ,12			2SC1845(F,E)	TRANSISTOR		C
Q13 -17			2SC1740S(Q,R)	TRANSISTOR		
Q13 -17			2SC945(A)(Q,P)	TRANSISTOR		
Q18			2SC2003(L,K)	TRANSISTOR		
Q19			2SD863(E,F)	TRANSISTOR		
Q20 -22			2SC3246	TRANSISTOR		
Q23			2SC1740S(Q,R)	TRANSISTOR		
Q23			2SC945(A)(Q,P)	TRANSISTOR		
Q24 -28			2SA733(A)(Q,P)	TRANSISTOR		
Q24 -28			2SA933S(Q,R)	TRANSISTOR		
Q29			2SC1740S(Q,R)	TRANSISTOR		
Q29			2SC945(A)(Q,P)	TRANSISTOR		
Q30			2SC3246	TRANSISTOR		
Q31			2SA733(A)(Q,P)	TRANSISTOR		
Q31			2SA933S(Q,R)	TRANSISTOR		
Q32			2SD863(E,F)	TRANSISTOR		
Q33			2SD882(Q,P,E)	TRANSISTOR		
DT1	1F		W02-0693-05	ELECTRIC CIRCUIT MODULE		C

ELECTRIC CIRCUIT MODULE (W02-0693-05) (KX-58CW ONLY)

Ref. No.	Address	New Parts	Parts No.	Description	Desti-nation	Re-marks
C1			CK45F1H103Z	CERAMIC 0.010UF Z		
C3 ,4			CE04FW1H100M	ELECTRO 10UF 50WV		
C5 ,6			CQ92M1H103J	MYLAR 0.010UF J		
C7 ,8			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C9 ,10			CQ92M1H183J	MYLAR 0.018UF J		
C11 ,12			CE04FW1HR68M	ELECTRO 0.68UF 50WV		
C13 ,14			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C15 ,16			CQ92M1H183J	MYLAR 0.018UF J		
C17 ,18			CQ92M1H103J	MYLAR 0.010UF J		
C19 ,20			CQ92M1H823J	MYLAR 0.082UF J		
C21 ,22			CE04FW1HR68M	ELECTRO 0.68UF 50WV		
C23 ,24			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		

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L1 ,2			L39-0106-05	TRAP COIL(19K)			
IC1			HA12088ANT	IC(DOLBY B/C NOISE REDUCTION)			
MECHANISM ASS'Y (D40-0861-05:A) (D40-0862-05:B)							
1	1B		A11-0231-08	SUB CHASSIS ASSY			
3	2A		A53-0753-08	CASSETTE HOLDER			
7	2C		D01-0092-08	FLYWHEEL ASSY			
8	2B		D03-0261-08	REEL DISK ASSY			
9	1B		D03-0262-08	REEL DISK			
10	1B		D10-1942-08	LEVER	(REC)	B	
11	1C		D10-1943-08	LEVER ASSY	(PAUSE)	B	
14	1B		D10-1946-08	ARM	(PAUSE LOCK)	B	
15	1A		D10-1947-08	ARM	(REC SENSOR)	B	
16	1C		D10-1948-08	LEVER	(PLAY)		
17	1C		D10-1949-08	LEVER	(REW)		
18	1C		D10-1950-08	LEVER	(FF)		
19	1C		D10-1951-08	LEVER	(STOP)		
20	1C		D10-1952-08	LEVER	(LOCK CAM)		
21	1B		D10-1953-08	LEVER	(AUTO SENSOR)		
22	2B		D10-1954-08	LEVER	(EJECT)		
23	1C		D10-1955-08	LEVER ASSY	(LOCK CAM)		
24	1C		D10-1956-08	ARM	(TRIGGER)		
25	1C		D10-1957-08	ARM	(INTER LOCK)		
26	1C		D10-1958-08	ARM	(TRIGGER)		
27	1C		D10-1959-08	ARM	(AUTO)		
28	1C		D10-1960-08	ARM	(AUTO LOCK)		
29	1B		D10-1961-08	ARM	(SHIFT)		
30	2B		D10-1962-08	ARM ASSY	(PLAY)		
31	1C		D12-0109-08	CAM	(PAUSE)	B	
32	1C		D12-0119-08	CAM	(AUTO)		
33	1C		D13-0615-08	GEAR	(AUTO)		
34	2B		D13-0616-08	GEAR	(PLAY)		
35	1B		D13-0617-08	GEAR	(FF)		
36	1B		D13-0618-08	GEAR	(ASSIST)		
37	2B		D14-0188-08	PINCH ROLLER ASSY			
38	2B		D15-0264-08	PULLEY	(AUTO)		
39	2C		D16-0162-08	BELT	(FR)		
40	2C		D16-0161-08	BELT	(AUTO)		
41	2C		D16-0160-08	BELT	(DRIVE)		
42	2B		D19-0095-08	CLUTCH ASSY			
43	2A		D21-1100-08	SHAFT	(BUTTON)		
44	2B		D23-0220-08	RETAINER			
45	2B		D39-0187-08	DAMPER ASSY			
52	2A	*	E31-7183-08	CONNECTING WIRE(8P)HEAD		B	
51	1A	*	E31-7184-08	CONNECTING WIRE(12P)		B	
52	2A	*	E31-7185-08	CONNECTING WIRE(3P)HEAD		A	
51	1A	*	E31-7186-08	CONNECTING WIRE(8P)		A	
57	2C		F07-0471-08	COVER	(SWITCH)		
61	2A		G01-1705-08	TORSION COIL SPRING(CASET HOLD			
62	1C		G01-2055-08	COMPRESSION SPRING(PAUSE CAM)		B	
63	1C		G01-2206-08	CUSHION	(MOTOR)		
64	1C		G01-2057-08	COMPRESSION SPRING(LEVER)			
65	1C		G01-2058-08	COMPRESSION SPRING(LEVER)			

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A: Deck A Mechanism
B: Deck B Mechanism

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66	1B		G01-2059-08	COMPRESSION SPRING(AUTO SENSOR		
67	1B		G01-2060-08	COMPRESSION SPRING(REEL DISK)		
68	1C		G01-2061-08	COMPRESSION SPRING(LEVER)		
69	2A		G01-2062-08	COMPRESSION SPRING(R/P HEAD)		
70	1C		G01-2063-08	TENSION SPRING (LOCK CAM)		
71	1C		G01-2064-08	TENSION SPRING (ARM)		
72	2A		G01-2065-08	TENSION SPRING (SHIFT ARM)		
73	2B		G01-2093-08	TENSION SPRING (EJECT)	B	
74	1C		G01-2067-08	TORSION COIL SPRING(TRIGER ARM		
75	1C		G01-2068-08	TORSION COIL SPRING(AL ARM)		
76	2B		G01-2069-08	TORSION COIL SPRING(PLAY ARM)		
77	1B		G01-2070-08	TORSION COIL SPRING(SHIFT ARM)		
78	2A		G01-2071-08	TORSION COIL SPRING(PR)		
79	2A		G02-0194-08	FLAT SPRING (CASET CLAMP)		
80	1B		G02-0419-08	FLAT SPRING		
82	2B		G01-2066-08	TENSION SPRING (EJECT)	A	
83	2B		G01-2401-08	COMPRESSION SPRING(FF GEAR)		
84	1C		G01-2207-08	TENSION SPRING (AUTO ARM)		
85	1A		J11-0154-08	COLLER (BUTTON)		
86	1B		J11-0097-08	WIRE CLAMPER	B	
87	1A		J19-2833-08	BRACKET (REC SW)	B	
88	2B		J19-2834-08	HOLDER (BUTTON)		
89	2A		J19-2835-08	HOLDER (HEAD)		
90	2C		J21-5046-08	MOUNTING HARDWARE(MOTOR)		
91	2B		J31-0252-08	COLLAR (BUTTON)	A	
92	1B,1C		J42-0133-08	BUSHING		
-			J61-0307-05	WIRE BAND		
103	2B		N10-2020-46	NUT (M2)		
104	2C		N19-0524-04	FLAT WASHER (/2.1)		
106	1B,2B		N19-1031-08	FLAT WASHER (/1.6)		
107	2B		N19-1036-08	FLAT WASHER (/1.6)		
108	2B		N19-1215-08	FLAT WASHER		
109	1B		N19-1080-08	FLAT WASHER (REEL)		
110	2B		N19-1081-08	FLAT WASHER (/2.1)		
112	2B		N19-1083-08	FLAT WASHER (/1.2)		
113	1B		N09-1034-08	STEPPED SCREW (MOTOR)		
114	1B		N19-1216-08	FLAT WASHER (T REEL SLIDER)		
115	2C		N19-1198-08	FLAT WASHER		
A	1A,2A		N09-1496-08	TAPTITE SCREW (/2X4)		
B	1C		N09-1507-08	STEPPED SCREW		
D	1B		N09-1675-08	TAPTITE SCREW (/2.6X5)		
E	2B		N09-1808-08	TAPTITE SCREW (/2X14)		
F	2B		N09-1809-08	TAPPING SCREW (/2X6)		
G	2A		N09-1810-08	SCREW (/2X6)		
H	2A		N35-2008-46	LEAF SWITCH (PLAY)		
J	2C		N09-2660-08	SCREW (M2.6X3)		
S1	2B		S46-1061-08	LEAF SWITCH (CRO2)		
S2 ,3	1A		S46-1088-08	LEAF SWITCH (METAL,REC)	B	
S4	1A		S46-1098-08	LEAF SWITCH (PLAY)	A	
S4	2A		S46-1111-08	LEAF SWITCH (PLAY)	B	
S5	1B		S46-1099-08	LEAF SWITCH (POWER)		
124	2A		T32-0315-08	ERASE HEAD	B	
125	2A		T32-0308-05	ERASE HEAD (DUMMY)	A	
126	2A		T34-0331-08	REC/PB HEAD		
M1	2C		T42-0432-08	MOTOR ASSY		

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KX-58W/58CW

SPECIFICATIONS

Type	Stereo double cassette deck with Dolby NR System
Track System	4-track, 2-channel Stereo, Recording/Playback
Recording System	AC Bias System (Bias Frequency: 105 kHz)
Erasing System	AC System
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads (Deck A)	Playback Head × 1
(Deck B)	Record and Playback Head × 1 Erase Head × 1
Motor	2 motors: Electronically Controlled DC Motor
Fast Winding Time	Approx. 110 seconds with C-60 tape
Frequency Response: (±6dB) – 20dB recording	
Normal Tape	20 Hz to 15,000 Hz
CrO_2 Tape	20 Hz to 16,000 Hz
Metal Tape	20 Hz to 16,000 Hz
Signal-to-Noise Ratio:	
Dolby C Type NR ON	72 dB (KX-58CW) (Normal Tape)
Dolby B Type NR ON	64 dB (Normal Tape)
Dolby NR OFF	56 dB (Normal Tape)

Harmonic Distortion	Less than 0.9% (at 1 kHz, 0 dB, 3rd H.D. with Normal Tape)
Wow and Flutter	0.15% (WRMS), ±0.3% (DIN)
Input Sensitivity/ Impedance:	
LINE IN	77.5 mV/50 kohms
Output Level/Impedance:	
LINE OUT	270 mV/3.9 kohms
Headphones	0.2 mW/8 ohms (KX-58CW)

GENERAL

Power Consumption	15 W
Dimensions	W: 440 mm (17-5/16″) H: 119 mm (4-11/16″) D: 268 mm (10-9/16″)
Weight	4.1 kg (9 lb) (KX-58CW) 4.0 kg (8.8 lb) (KX-58W)

Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.
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Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.
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Le système de réduction du bruit de fond est fabriqué sous license des Dolby Laboratories.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.
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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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